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
JEN VORTAC	USXEL (FO)	194.29 / 42.80	3100
BUILT	USXEL (FO)	146.13 / 12.10	3100
AGJ VORTAC (IAF)	USXEL (NOPT) (FB)	346.85 / 18.53	3100
USXEL (IF/IAF)	UDOBY (FB)	001.97 / 6.10	2600
UDOBY (FAF)	ZUBVA/2.20 NM TO RW36 (FB)	001.98 / 1.76	
ZUBVA/2.20 NM TO RW36	RW36 (MAP) (FO)	001.99 / 2.20	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW36

CLIMB TO 3600 DIRECT ULIGY AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 182.01 INBOUND.
CHART FAS OBST: 1340 POLE 313946N/0980823W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
WAAS CHANNEL # 50229
REFERENCE PATH ID: W36A
LTP HAE: 369.5 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD S USXEL, RT, 001.97 INBOUND, 3100 FT. IN LIEU OF PT (IAF)
3. FAC: 001.98 FAF: UDOBY DIST FAF TO MAP: 3.96 THLD: 3.96
4. MIN. ALT: USXEL 3100, UDOBY 2600, ZUBVA/2.20 NM TO RW36 2040*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2600 GS ALT AT: UDOBY 2600 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM: RW36 3200

MAG VAR: 7E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD @

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
LPV DA	1550	1	250	1550	1	250	1550	1	250		NA				
LNAV/VNAV DA	1550	1	250	1550	1	250	1550	1	250		NA				
LNAV MDA	1600	1	300	1600	1	300	1600	1	300		NA				
CIRCLING	1680	1	375	1760	1	455	1900	1 1/2	595		NA				

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING COMANCHE ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 36 PROCEDURE NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG
				DATED 12/17/2009

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **ZFW, GRK APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **JILL OLSON (ANKUR VERMA)**	FIFO **AJV-353**	DATE: **01/27/2012**

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

CHANGES:

1. TERMINAL ROUTE JEN VORTAC TO SHLTN CHANGED TO USXEL.
2. TERMINAL ROUTE BUILT TO UGUNY CHANGED TO USXEL.
3. TERMINAL ROUTE AGJ VORTAC TO USXEL CHANGED CRS/DIST FROM 346.80/18.47 TO 346.85/18.53.
4. TERMINAL ROUTE SHLTN TO USXEL AND UGUNY TO USXEL DELETED.
5. TERMINAL ROUTE USXEL TO UDOBY CRS/DIST CHANGED FROM 001.98/6.20 TO 001.97/6.10.
6. TERMINAL ROUTE UDOBY TO ZUBVA AND ZUBVA TO RW36 ADDED.
7. PROFILE SECTION LINE 2 CHANGED HOLDING INB CRS FROM 001.98 TO 001.97.
8. PROFILE SECTION LINE 3 FAC CHANGED FROM 001.99 TO 001.98 AND DIST FAF TO MAP/THLD CHANGED FROM 3.92/3.92 TO 3.96/3.96.
9. PROFILE SECTION LINE 4 ADDED ZUBVA/2.20 NM TO RW36 2040 ASTERISK.
10. PROFILE SECTION LINE 6 ADDED MIN GS INCPT 2600 AND GS ALT AT UDOBY 2600.
11. PROFILE SECTION LINE 7 ADDED GS ANGLE 3.00 AND TCH 40.0.
12. MINIMUMS SECTION ADDED LPV AND LNAV/VNAV MINIMA.
13. MINIMUMS SECTION LNAV MDA/HATH CHANGED FROM 1640/341 TO 1600/300.
14. MINIMUMS SECTION CIRCLING CAT C VISIBILITY CHANGED FROM 1 3/4 TO 1 1/2.
SEE 8260-10

REASONS:

1. CENTRAL FPT AND AT INDICATE AIRSPACE ISSUES WITH IAF SHLTN.
2. CENTRAL FPT AND AT INDICATE AIRSPACE ISSUES WITH IAF USXEL
3. PER CURRENT EVALUATION DUE TO REALIGNMENT OF USXEL.
4. SEE REASON 1 AND 2.
5. MOVED USXEL TO REALIGN AND SHORTEN INTERMEDIATE LEG LENGTH.
6. ADDED STEPDOWN FIX PER 8260.3B PAR 288C.
7. PATTERN CRS CHANGED TO ALIGN WITH IF/IAF TO FAF COURSE.
8. PER CURRENT EVALUATION AND PER 8260.54A FORMULA 2-17B.
9. PER 8260.19D PAR 852D.
10. PER 8260.19D PAR 852F.
11. PER 8260.19D PAR 852G.
12. PER CENTRAL FPT REQUEST DUE TO THE ADDITION OF ANALPV SURVEY.
13. PER STEPDOWN FIX ZUBVA ADDITION.
14. PER 8260.3B TABLE 3-10.
SEE 8260-10

QUALITY 9 CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW36 (MAP)	1550 MSL	001.99	
1550 MSL	ULIGY (FO)		3600

NOTES, (CONT.):
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BUILT ON V161-568 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON JEN VORTAC AIRWAY RADIALS 128 CW 267.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON AGJ VORTAC AIRWAY RADIALS 008 CW 036.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COMANCHE ALTIMETER SETTING AND INCREASE ALL DA 75 FEET AND ALL VISIBILITY 1/8 MILE. INCREASE ALL MDA 80 FEET AND CIRCLING CAT C VISIBILITY 1/2 MILE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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. NOTES SECTION ADDED UNCOMPENSATED BARO-VNAV NOTE, VGSI AND RNAV GLIDEPATH NOT COINCIDENT, ASTERISK LNAV ONLY, VDP NA WITH COMANCHE ALTIMETER SETTING, BARO-VNAV NA WHEN USING COMANCHE ALTIMETER NOTE, AND WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 36 PROCEDURE NA AT NIGHT NOTE. 16. NOTES SECTION CHANGED PROCEDURE NA FOR ARRIVAL NOTES TO AIRWAY RADIAL NOTES AND UPDATED LOCAL ALTIMETER SETTING NOTE. 17. MISSED APPROACH SECTION ADDED LPV AND LNAV/VNAV. 18. MISSED APPROACH CHANGED FROM CLIMB TO 4000 DIRECT ULIGY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000 TO CLIMB TO 3600 DIRECT ULIGY AND HOLD. 19. ADDTL FLIGHT DATA CHANGED HOLDING PATTERN CRS FROM 182.02 TO 182.01. 20. ADDTL FLIGHT DATA CHANGED FAS OBST FROM 1359 TREE TO 1340 POLE. 21. ADDTL FLIGHT DATA DELETED VDA UDOBY TO RW36: 3.03/40. 22. ADDTL FLIGHT DATA ADDED DISTANCE TO THLD FROM 250 HATH, WAAS CHANNEL, REFERENCE PATH ID, AND LTP HAE. 23. CHANGED AIRPORT ELEVATION FROM 1299 TO 1305 AND TDZE FROM 1299 TO THRE 1300.

REASONS:

REASONS CONT.
15. PER 8260.19D PAR 497, PAR 854 N(1), 852 D(1), 855 E(8), 854 M(2)(H).
16. PER 8260.19D PAR 805 G(2), PER CURRENT EVALUATION.
17. MISSED APPROACHES ADDED PER LPV AND LNAV/VNAV MINIMA ADDED.
18. PER AT AND CENTRAL FPT REQUEST.
19. PER CURRENT EVALUTION DUE TO REALIGNMENT OF ULIGY.
20. PER CURRENT EVALUATION AND 8260.19D PAR 857D.
21. VDA NOT USED DUE TO PRECISION/VERTICAL PATH PROCEDURE.
22. PER 8260.19D PAR 852 L(2) AND 852 L(3).
23. PER CURRENT EVALUATION AND NEW AIRPORT/RWY DATA.

PDF EDITS:
1. TERMINAL ROUTE UDOBY TO ZUBVA ADDED (FAF) DESCRIPTOR.
2. TERMINAL ROUTE UDOBY TO ZUBVA DELETED ALTITUDE.
3. 8260-10 TERMINAL ROUTE 1550 MSL TO ULIGY CHANGED ALTITUDE FROM 1550 TO 3600.
4. 8260-10 SEGMENT RECORD DELETED 020 FROM HM LEG IN COLUMNS 45 THROUGH 47.
5. 8260-10 FLIGTH INSPECTION SUMMARY RNP VALUE 2.0 DELETED FROM HM LEG.

QUALITY CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMNZ
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	313932.8975N
LTP/FTP LONGITUDE	0980859.6340W
LTP/FTP ELLIPSOIDAL HEIGHT	+03695
FPAP LATITUDE	314101.0900N
FPAP LONGITUDE	0980843.3100W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	BDE5E044

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03962
FPAP ORTHOMETRIC HEIGHT	+03962

QUALITY CHECKED 9

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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 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
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        AGJ   K4011250VTHW N31110782W098083069    N31110782W098083069E0050011912     NARGOOCH SPRINGS
        SUSAD        JEN   K4011500VTLW N32093452W097523965    N32093452W097523965E0060013001     NARGLEN ROSE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUILT K40    R   L N31402445W098171363                    E0048     NAR           BUILT
        SUSAEAENRT   UDOBY K40    W     N31353788W098094307                    E0047     NAR           UDOBY
        SUSAEAENRT   ULIGY K40    W     N31504770W098065457                    E0047     NAR           ULIGY
        SUSAEAENRT   USXEL K40    W     N31293541W098104994                    E0047     NAR           USXEL
        SUSAEAENRT   ZUBVA K40    W     N31372224W098092379                    E0047     NAR           ZUBVA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4AMNZ     0     049YHN31395730W098085510E007001305         1800018000C    MNAR    HAMILTON MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4FR36   AAGJ   010AGJ  K4D 0V  A    IF                                          18000                A JS
        SUSAP KMNZK4FR36   AAGJ   020USXELK4EA0EE B 010TF                    34690185    + 03100                      A JS
        SUSAP KMNZK4FR36   ABUILT 010BUILTK4EA0E       IF                                          18000                A JS
        SUSAP KMNZK4FR36   ABUILT 020USXELK4EA0EY   020TF                    14610121    + 03100                      A JS
        SUSAP KMNZK4FR36   ABUILT 030USXELK4EA0EE AR   HF                    00200040    + 03100                      A JS
        SUSAP KMNZK4FR36   AJEN   010JEN  K4D 0V       IF                                          18000                A JS
        SUSAP KMNZK4FR36   AJEN   020USXELK4EA0EY   020TF                    19430428    + 03100                      A JS
        SUSAP KMNZK4FR36   AJEN   030USXELK4EA0EE AR   HF                    00200040    + 03100                      A JS
        SUSAP KMNZK4FR36   R      010USXELK4EA0E  I    IF                                + 03100     18000            A JS
        SUSAP KMNZK4FR36   R      020UDOBYK4EA1E  F 051TF                    00200061    + 02600                RW36  K4PGA JS
        SUSAP KMNZK4FR36   R      020UDOBYK4EA2WALPV       ALNAV/VNAV ALNAV                                             JS
        SUSAP KMNZK4FR36   R      021ZUBVAK4EA0E S  031TF                    00200018    V 0204002040        -300     A JS
        SUSAP KMNZK4FR36   R      030RW36 K4PG0GY M 031TF                    00200022      01340             -300     A JS
        SUSAP KMNZK4FR36   R      040         0  M     CA                    0020        + 01550                      A JS
        SUSAP KMNZK4FR36   R      050ULIGYK4EA0EY      DF                                + 03600                      A JS
        SUSAP KMNZK4FR36   R      060ULIGYK4EA0EE  R   HM                    18200040    + 03600                      A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4GRW36    0049980020 N31393290W098085963+0000    +0369501300000040075R
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QUALITY 9 CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: **HAMILTON MUNI**	**RNAV**	**RNAV (GPS) RWY 36, AMDT 1**	AMDT: **ORIG**
				DATED: **12/17/2009**

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:

QUALITY CHECKED

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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4PR36   RW36 001 0000W36A0N3139328975W09808596340+036950300N3141010900W098084331001067512240004 00F400500BDE5E044
        SUSAP KMNZK4PR36   RW36 002E      +03962+03962LPV       50229
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMNZK4SRW36 K4PG                0   18018003225                                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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:

QUALITY 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 SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AGJ	AGJ	010	IAF	IF		FB					
	AGJ	USXEL	020		TF		FB	1.0	346.9(353.9T)	018.5	AA 03100	
	BUILT	BUILT	010		IF		FB					
	BUILT	USXEL	020		TF		FO	2.0	146.1(153.1T)	012.1	AA 03100	
	BUILT	USXEL	030	IAF	HF	R	FO		002.0(009.0T)	004.0	AA 03100	
	JEN	JEN	010		IF		FB					
	JEN	USXEL	020		TF		FO	2.0	194.3(201.3T)	042.8	AA 03100	
	JEN	USXEL	030	IAF	HF	R	FO		002.0(009.0T)	004.0	AA 03100	
		USXEL	010	FACF	IF		FB				AA 03100	
		UDOBY	020	FAF	TF		FB	0.5	002.0(009.0T)	006.1	AA 02600	
		ZUBVA	021	SDF	TF		FB	0.3	002.0(009.0T)	001.8	AA 02040 GS 02040	
		RW36	030	MAP	TF		FO	0.3	002.0(009.0T)	002.2	AT 01340	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		002.0(009.0T)		AA 01550	
	ULIGY	050		DF		FO				AA 03600	
	ULIGY	060		HM	R	FO		182.0(189.0T)	004.0	AA 03600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AGJ	N311107.82	W0980830.69	N3111.130	W09808.512
	JEN	N320934.52	W0975239.65	N3209.575	W09752.661
	BUILT	N314024.45	W0981713.63	N3140.408	W09817.227
	UDOBY	N313537.88	W0980943.07	N3135.631	W09809.718
	ULIGY	N315047.70	W0980654.57	N3150.795	W09806.910
	USXEL	N312935.41	W0981049.94	N3129.590	W09810.832
	ZUBVA	N313722.24	W0980923.79	N3137.371	W09809.397
	RW36	N313932.90	W0980859.63	N3139.548	W09808.994

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	01300	40

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1305 THRE: 1300	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
HAMILTON, TX	AIRPORT NAME: HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG
				DATED: 12/17/2009

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:

QUALITY CHECKED 9

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	JEN VORTAC	USXEL	1. AAO	313118.00N/0981233.00W	1726 (4E)	1000	AT374	3100
			2. TERRAIN	313118.00N/0981233.00W	1526 (1500)		AS1500	3000
FEEDER	BUILT	USXEL	3. AAO	313545.00N/0981700.00W	1759 (4E)	1000		2800
			4. TERRAIN	313548.00N/0981706.00W	1559 (1600)		AS1500	3100
INITIAL	AGJ VORTAC	USXEL	5. AAO	313030.00N/0981124.00W	1716 (4E)	1000	AT384	3100
			6. TERRAIN	312927.00N/0981100.00W	1493 (1500)		AS1500	3000
INTERMEDIATE	USXEL (IF/IAF)	UDOBY	7. AAO	313118.00N/0981236.00W	1729 (4E)	500	AT371	2600
			8. TERRAIN	313118.00N/0981236.00W	1529 (1500)		AS1000	2500
FINAL: LPV	UDOBY	RW36	9. TREE (KMNZT0015)	313929.44N/0980855.91W	1321 (1A)	34:1		1550/250
FINAL: LNAV/VNAV	UDOBY	RW36				ASC		1550/250
FINAL: LNAV	UDOBY	ZUBVA/2.20 NM TO RW36	10. AAO	313945.66N/0980822.69W	1499 (2C)	250	DG216 RA75	2040
FINAL: LNAV STEPDOWN	ZUBVA/2.20 NM TO RW36	RW36	11. POLE (KMNZT0101)	313945.66N/0980822.69W	1340 (2C)	250		1600
2. HOLD-IN-LIEU-OF-PT	USXEL	P-5	12. AAO	313219.50N/0981332.80W	1755 (6A)	1000		2800
			13. TERRAIN	313219.50N/0981332.80W	1555 (1600)		AS1500	3100
3. MISSED APPROACH — MAP:	DA / DA / RW36	ULIGY				ASC		3600
			14. TOWER (48-009051)	314758.00N/0980813.00W	1821 (2C)	1000		2900
ELEV:	1363/1400/1500		15. TERRAIN	314018.00N/0980924.00W	1316 (1300)		AS1500	2800
			16. TREE (KMNZT0110)	313945.77N/0980951.62W	1372 (2C)	300		1680
			16. TREE (KMNZT0110)	313945.77N/0980951.62W	1372 (2C)	300	HAA	1760
			17. TOWER (48-008962)	313906.00N/0980710.00W	1539 (4D)	300	AC50	1900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	375
CATEGORY B	1.5 NM	450	455
CATEGORY C	1.7 NM	450	595
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW36

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (48-008358)	233/ 24.1	2130 (5D)	3200					

CITY AND STATE	ELEVATION: 1305 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
HAMILTON, TX	HAMILTON MUNI	RNAV	RNAV (GPS) RWY 36, AMDT 1	ASW

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZFW ARTCC GRK APP CON FTW FSS	N W S F A A A / C	OTHER: AWOS-3	SOURCE: KMNZ / KMKN DISTANCE: 0 / 27.62 HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: X VHF X UHF HF	LOCATION: KMNZ		ADJUSTMENT: 0 / 75

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 18, 36
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PSIL 18, 36
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 18, 36
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1299.8
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 40.0
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 (ANKUR VERMA)	DATE: 01/27/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

ACTUAL HIGH TEMP: 90C (194F)

ISA DEVIATION USED: -30C (-22F)

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1 SURFACE.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KMNZ 1304.8, KMKN 1386.6
RA = 74.98.
SEE ATTACHED AIRSPACE LETTER.

VEGETATION HEIGHT: 40 FT PER CEN FPT.

TAA NOT DEVELOPED PER CENTRAL FPT.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
20:1 RWY 36:
1321 TREE (KMNZT0015) 313929.44N/0980855.91W (16.45)
34:1 RWY 36:
1315 TREE (KMNZT0007) 313927.09N/0980857.49W (4.88)
1314 BUSH (KMNZT0008) 313927.28N/0980858.46W (4.06)
1313 BUSH (KMNZT0005) 313927.18N/0980858.70W (2.67)
1312 BUSH (KMNZT0006) 313927.16N/0980858.05W (1.87)

WHEN VGSI IS OTS, STRAIGHT-IN/CIRCLING PROCEDURE NA AT NIGHT.

BACKUP ALTIMETER PUBLISHED AS NOTE.

RWY 36 SURVEY: ANALPV 09/30/2009 THIRD PARTY.

TX DOT REQUESTED CATS A/B/C ONLY.

VGSI DATA: 3.04/25.5.

SLOPES:
LPV: 34:1
LNAV/VNAV: 23.4:1
LNAV/VNAV SECONDARY: 34:1

AVG COLD TEMP DATA NOT AVAILABLE; USED -30C.

KMNZ AND KMKN ON SERVICE-A; 24 HOURS.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BUILT **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 314024.45N/0981713.63W **TYPE:** 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	GLEN ROSE	JEN	VORTAC	L	209.80	215.80	35.84	35.84		3500	17500
2	WACO	ACT	VORTAC	H	262.00	271.00		52.14		5000	17500
3	LLANO	LLO	VORTAC	L	017.98	025.98	58.48	58.48		6000	17500
4	MILLSAP	MQP	VORTAC	H	184.25	193.25	64.73	64.73		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ACT	VORTAC	R-262	53	5000	15100
LLO	VORTAC	R-018	59	5500	17500
MQP	VORTAC	R-184	65	6000	15400

FIX RESTRICTIONS:
MRA V161 6000 NORTHBOUND
SPECIAL RNAV (GPS) RWY 36, K74TE, WALNUT SPRINGS, TX

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

REMARKS:
GLEN ROSE (FAC 1) AND WACO (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V161-568	1, 2, 3, 4				
IAP	LOC RWY 17	1, 2		KBWD	BROWNWOOD	TX (US)
IAP	VOR RWY 17	1, 2		KBWD	BROWNWOOD	TX (US)
IAP	RNAV (GPS) RWY 18			KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36			K74TE	WALNUT SPRINGS	TX (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FAC 2 MRA CHANGED FROM 3500 TO 5000 PER ESVMS & FC.
ACT ESV MIN ALTITUDE CHANGED FROM 3500 TO 5000 PER ESVMS & FC.
ADDED REMARK GLEN ROSE (FAC 1) AND WACO (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/24/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GOOCH SPRINGS VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 311107.82N/0980830.69W **TYPE:**

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	GOOCH SPRINGS	AGJ	VORTAC	H							45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	N	AGJ	VORTAC	014.00	194.00	R	1-1 1/2		3000	17500	4	16
2	N		WP	010.00	190.00	R		4	3000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	312036.00N/0980651.00W	1638	4E
1	265	AAO	310842.00N/0981500.00W	1720	4E
2	200	AAO	312136.00N/0980736.00W	1660	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 265 KT TO ACCOMMODATE MILITARY CAT E AIRCRAFT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AUSTIN			KAUS	AUSTIN	TX (US)
DP	CENTEX			KAUS	AUSTIN	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	CONRA			KHLR	FORT HOOD(KILLEEN)	TX (US)
DP	CONRA			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	LAMPS			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	CONRA			KILE	KILLEEN	TX (US)
DP	LAMPS			KILE	KILLEEN	TX (US)
DP	ALAMO			KSAT	SAN ANTONIO	TX (US)
DP	ALAMO			KSSF	SAN ANTONIO	TX (US)
EN ROUTE	V163					(US)
EN ROUTE	V358					(US)
IAP	NDB RWY 1			KBMQ	BURNET	TX (US)
IAP	RNAV (GPS) RWY 19			KBMQ	BURNET	TX (US)
IAP	COPTER NDB RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER RNAV (GPS) RWY 34			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 32			KHLR	FORT HOOD (KILLEEN)	TX (US)
IAP	COPTER VOR RWY 33			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 15		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	ILS OR LOC RWY 33		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	NDB RWY 15			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RADAR-1		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RADAR-2		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 15		2	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 33		2	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR-A			KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	VOR/DME RWY 15		1	KGRK	FORT HOOD/KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 11			KGTU	GEORGETOWN	TX (US)
IAP	RNAV (GPS) RWY 18			KGTU	GEORGETOWN	TX (US)
IAP	NDB RWY 36			KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)
IAP	ILS OR LOC RWY 1			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 1			KILE	KILLEEN	TX (US)
IAP	VOR-A			KILE	KILLEEN	TX (US)
IAP	RNAV (GPS) RWY 34		2	KLZZ	LAMPASAS	TX (US)
IAP	VOR-A		1	KLZZ	LAMPASAS	TX (US)
IAP	RNAV (GPS) RWY 17			KAQO	LLANO	TX (US)
IAP	ILS OR LOC RWY 15			KTPL	TEMPLE	TX (US)
STAR	KNEAD			KGKY	ARLINGTON	TX (US)
STAR	BLEWE			K3R9	AUSTIN	TX (US)
STAR	KALLA			K3R9	AUSTIN	TX (US)
STAR	BLEWE			KAUS	AUSTIN	TX (US)
STAR	KALLA			KAUS	AUSTIN	TX (US)
STAR	KNEAD			KCPT	CLEBURNE	TX (US)
STAR	GLEN ROSE			KADS	DALLAS	TX (US)
STAR	KNEAD			KADS	DALLAS	TX (US)
STAR	GLEN ROSE			KDAL	DALLAS	TX (US)
STAR	KNEAD			KDAL	DALLAS	TX (US)

QUALITY CHECKED 9

STAR	KNEAD	KRBD	DALLAS	TX (US)
STAR	GLEN ROSE	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JUMBO	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	SLUGG	KDTO	DENTON	TX (US)
STAR	SLUGG	KAFW	FORT WORTH	TX (US)
STAR	SLUGG	KFTW	FORT WORTH	TX (US)
STAR	KNEAD	KFWS	FORT WORTH	TX (US)
STAR	SLUGG	KNFW	FORT WORTH	TX (US)
STAR	KALLA	KGTU	GEORGETOWN	TX (US)
STAR	KNEAD	KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD	KLNC	LANCASTER	TX (US)
STAR	GLEN ROSE	KTKI	MC KINNEY	TX (US)
STAR	KNEAD	KTKI	MC KINNEY	TX (US)
STAR	KNEAD	KHQZ	MESQUITE	TX (US)
STAR	MARCS	KSAT	SAN ANTONIO	TX (US)
STAR	MARCS	KSKF	SAN ANTONIO	TX (US)
STAR	MARCS	KSSF	SAN ANTONIO	TX (US)
STAR	BLEWE	KHYI	SAN MARCOS	TX (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FIX USE.
FIX MOVED 2 FT NORTHEAST DUE TO THIRD PARTY SURVEY.
PAT 1 265KT OBSTRUCTION CHANGED FROM 1731 AAO TO 1720 AAO PER CURRENT EVALUATION.

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UDOBY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 313537.88N/0980943.07W **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 36			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
FIX MOVED 245 FT DUE TO APPLICATION OF 8260.54A 2-16B.
DELETED RNP CRITERIA APPLIED REMARK.

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ULIGY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 315047.70N/0980654.57W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	N		WP	002.01	182.01	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (48-009051)	314758.00N/0980813.00W	1821	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18		1	KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		1	KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
FIX MOVED 4433 FT NORTH DUE TO RNAV (GPS) RWY 18 INITIAL LEG DTA.
DELETED PAT 1 310KT PATTERN; CIH NO LONGER NEEDED FOR RNAV 36 MISSED.
PAT 1 CRS INBOUND CHANGED FROM 182.02 TO 182.01 PER CURRENT EVAL.

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: USXEL **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 312935.41N/0981049.94W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	S		WP	181.97	001.97	R		4	3100	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	313219.50N/0981332.80W	1755	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 18		1	KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		1	KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
FIX MOVED 365 FT NORTH TO SHORTEN INTERMEDIATE SEGMENT LENGTH.
PAT 1 CRS INBOUND CHANGED FROM 001.98 TO 001.97 PER CURRENT EVALUATION.

DEVELOPED BY: **DATE:** 01/27/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUBVA **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 313722.24N/0980923.79W **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 36			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 01/23/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (ANKUR VERMA)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: GLEN ROSE VORTAC **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 320934.52N/0975239.65W **TYPE:**

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	GLEN ROSE	JEN	VORTAC	L							17500

FIX RESTRICTIONS:
SPECIAL RNAV (GPS) RWY 35, KTA25, RANGER, TX

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	E	JEN	VORTAC	095.00	275.00	R	1		3500	6000	4	5
2	S	JEN	VORTAC	196.58	016.58	R	1		3000	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (48-010157)	321632.00N/0980123.00W	2529	4D
1	200	TOWER (48-002801)	321028.00N/0975307.00W	1577	5D
2	200	AAO	320641.00N/0975818.00W	1594	2A

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3600.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	JOE POOL			KGKY	ARLINGTON	TX (US)
DP	KINGDOM			KGKY	ARLINGTON	TX (US)
DP	WORTH			KGKY	ARLINGTON	TX (US)
DP	JOE POOL			KADS	DALLAS	TX (US)
DP	KINGDOM			KADS	DALLAS	TX (US)
DP	WORTH			KADS	DALLAS	TX (US)
DP	COYOTE			KDAL	DALLAS	TX (US)
DP	JOE POOL			KDAL	DALLAS	TX (US)
DP	KINGDOM			KDAL	DALLAS	TX (US)
DP	LOVE			KDAL	DALLAS	TX (US)
DP	VENUS			KDAL	DALLAS	TX (US)
DP	WORTH			KDAL	DALLAS	TX (US)
DP	JOE POOL			KRBD	DALLAS	TX (US)
DP	KINGDOM			KRBD	DALLAS	TX (US)
DP	WORTH			KRBD	DALLAS	TX (US)
DP	JOE POOL			KTKI	DALLAS	TX (US)
DP	KINGDOM			KTKI	DALLAS	TX (US)
DP	WORTH			KTKI	DALLAS	TX (US)
DP	COYOTE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDFW	DALLAS-FORT WORTH	TX (US)
DP	KINGDOM			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDFW	DALLAS-FORT WORTH	TX (US)
DP	JOE POOL			KDTO	DENTON	TX (US)
DP	KINGDOM			KDTO	DENTON	TX (US)
DP	WORTH			KDTO	DENTON	TX (US)
DP	LAMPS			KHLR	FORT HOOD (KILLEEN)	TX (US)
DP	LAMPS			KGRK	FORT HOOD/KILLEEN	TX (US)
DP	JOE POOL			KAFW	FORT WORTH	TX (US)
DP	KINGDOM			KAFW	FORT WORTH	TX (US)
DP	WORTH			KAFW	FORT WORTH	TX (US)
DP	JOE POOL			KFTW	FORT WORTH	TX (US)
DP	KINGDOM			KFTW	FORT WORTH	TX (US)
DP	WORTH			KFTW	FORT WORTH	TX (US)
DP	JOE POOL			KFWS	FORT WORTH	TX (US)
DP	KINGDOM			KFWS	FORT WORTH	TX (US)
DP	WORTH			KFWS	FORT WORTH	TX (US)
DP	JOE POOL			KNFW	FORT WORTH	TX (US)
DP	KINGDOM			KNFW	FORT WORTH	TX (US)
DP	WORTH			KNFW	FORT WORTH	TX (US)
DP	JOE POOL			KGPM	GRAND PRAIRIE	TX (US)
DP	KINGDOM			KGPM	GRAND PRAIRIE	TX (US)
DP	WORTH			KGPM	GRAND PRAIRIE	TX (US)
DP	LAMPS			KILE	KILLEEN	TX (US)
DP	JOE POOL			KLNC	LANCASTER	TX (US)
DP	KINGDOM			KLNC	LANCASTER	TX (US)

QUALITY CHECKED 9

DP	WORTH		KLNC	LANCASTER	TX (US)
DP	JOE POOL		KHQZ	MESQUITE	TX (US)
DP	KINGDOM		KHQZ	MESQUITE	TX (US)
DP	WORTH		KHQZ	MESQUITE	TX (US)
DP	ALAMO		KSAT	SAN ANTONIO	TX (US)
DP	ALAMO		KSSF	SAN ANTONIO	TX (US)
EN ROUTE	V163				(US)
EN ROUTE	V17				(US)
EN ROUTE	V18				(US)
EN ROUTE	V568				(US)
EN ROUTE	V62				(US)
EN ROUTE	V94				(US)
IAP	LOC/DME RWY 15		KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 15		KCPT	CLEBURNE	TX (US)
IAP	RNAV (GPS) RWY 33		KCPT	CLEBURNE	TX (US)
IAP	CONVERGING ILS RWY 18L		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	CONVERGING ILS RWY 18R		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 17C		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS OR LOC RWY 17R		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS RWY 17C (CAT II)		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	ILS RWY 17C (CAT III)		KDFW	DALLAS-FORT WORTH	TX (US)
IAP	RNAV (GPS) RWY 35		K50F	FORT WORTH	TX (US)
IAP	VOR/DME-A		K50F	FORT WORTH	TX (US)
IAP	ILS RWY 35L		KFWS	FORT WORTH	TX (US)
IAP	RNAV (GPS) RWY 14		KGDJ	GRANBURY	TX (US)
IAP	VOR/DME-A		KGDJ	GRANBURY	TX (US)
IAP	RNAV (GPS) RWY 18		KMNZ	HAMILTON	TX (US)
IAP	RNAV (GPS) RWY 36		KMNZ	HAMILTON	TX (US)
IAP	GPS RWY 31		KMWL	MINERAL WELLS	TX (US)
IAP	RNAV (GPS) RWY 35		KTA25	RANGER	TX (US)
IAP	VOR/DME-A	1	KSEP	STEPHENVILLE	TX (US)
IAP	ILS OR LOC RWY 19		KACT	WACO	TX (US)
IAP	ILS OR LOC RWY 17L		KCNW	WACO	TX (US)
IAP	RNAV (GPS) RWY 17L		KCNW	WACO	TX (US)
STAR	KNEAD		KGKY	ARLINGTON	TX (US)
STAR	KNEAD		KCPT	CLEBURNE	TX (US)
STAR	GLEN ROSE	2	KADS	DALLAS	TX (US)
STAR	KNEAD		KADS	DALLAS	TX (US)
STAR	GLEN ROSE	2	KDAL	DALLAS	TX (US)
STAR	KNEAD		KDAL	DALLAS	TX (US)
STAR	KNEAD		KRBD	DALLAS	TX (US)
STAR	GLEN ROSE	2	KTKI	DALLAS	TX (US)
STAR	KNEAD		KTKI	DALLAS	TX (US)
STAR	CEDAR CREEK		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	GLEN ROSE	2	KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JAGGO		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	JUMBO		KDFW	DALLAS-FORT WORTH	TX (US)
STAR	SLUGG	2	KDTO	DENTON	TX (US)
STAR	SLUGG	2	KAFW	FORT WORTH	TX (US)
STAR	SLUGG	2	KFTW	FORT WORTH	TX (US)
STAR	KNEAD		KFWS	FORT WORTH	TX (US)
STAR	SLUGG	2	KNFW	FORT WORTH	TX (US)
STAR	KNEAD		KGPM	GRAND PRAIRIE	TX (US)
STAR	KNEAD		KLNC	LANCASTER	TX (US)
STAR	KNEAD		KHQZ	MESQUITE	TX (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, AREA, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
FIX USE UPDATE.
ADDED FIX RESTRICTIONS DATA.

DEVELOPED BY: **DATE:** 10/20/2010 **OFFICE:** AVN-120 **NAME:** LARRY STROUT (KISSY MAXFIELD)

APPROVED BY: **DATE:** 05/05/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZFW
ATC FACILITY: REGIONAL APP CON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **HAMILTON** STATE: **TX**

AIRPORT NAME: **HAMILTON MUNI** ID: **KMNZ**

PROCEDURE: **RNAV (GPS) RWY 36** 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 **3.02**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.25**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **008.98**
4. High Terrain in **FINAL** segment containing 1000' point **1296**
5. Distance from **THLD** to 1500' point **9.86**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **4.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **001.97**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1529**
9. Threshold Coordinates (if straight-in) ... **313932.90N** / **0980859.63W**
10. ARP Coordinates ..... **313957.30N** / **0980855.10W**
11. Runway Approach End and distance furthest from ARP ..... RWY **18**
    Distance **0.41** NM
12. FAF Coordinates ..... **313537.88N** / **0980943.07W**

REMARKS: Approach/Drawing attached.

RADIO FIX AND HOLDING DATA RECORD

CANCELLED

NAME: SHLTN **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 312844.80N/0980504.19W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 12/17/2009

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

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

CANCELLED

NAME: UGUNY **STATE:** TX **COUNTRY:** US

LATITUDE/LONGITUDE: 313018.66N/0981637.32W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 36			KMNZ	HAMILTON	TX (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 12/17/2009

REASON FOR REVISION:
FIX MOVED 5.03 NM SOUTHEAST.
UPDATED FIX COORDINATES.
DELETED FAC 1.
UPDATED FIX USE.

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

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZFW
ATC FACILITY: GRK APP CON
OTHER:

QUALITY CHECKED