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
KUVPE (IAF)	VUGBY (NOPT) (FB)	305.09 / 9.72	3000
CNU VOR/DME (IAF)	VUGBY (NOPT) (FB)	060.10 / 8.01	3000
VUGBY (IF/IAF)	HEKBO (FB)	009.41 / 6.03	2600
HEKBO (FAF)	RW01 (MAP) (FO)	009.39 / 4.84	
RW01 (MAP)	1255 MSL	009.39	
1255 MSL	TIGAY (FO)		3000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

CLIMB TO 3000 DIRECT TIGAY AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 189.45 INBOUND.
FAS OBST: 1219 AAO 374655N/0952335W
DISTANCE TO THLD FROM 250 HATH: 0.61 NM.
WAAS CHANNEL # 86628
REFERENCE PATH ID: W01A
LTP HAE: 275.2 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD S VUGBY, RT, 009.41 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 009.39 FAF: HEKBO DIST FAF TO MAP: 4.84 THLD: 4.84
4. MIN. ALT: VUGBY 3000, HEKBO 2600
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2600 GS ALT AT: HEKBO 2600 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 55.2 34:1 IS NOT CLEAR
8. MSA FROM: RW01 2700

MAG VAR: 4E 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
LPV DA	1255	1	250	1255	1	250	1255	1	250		NA				
LNAV/VNAV DA	1255	1	250	1255	1	250	1255	1	250		NA				
LNAV MDA	1480	1	475	1480	1	475	1480	1 3/8	475		NA				
CIRCLING	1520	1	504	1520	1	504	1640	1 3/4	624		NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: BARO-VNAV NA WHEN USING CHANUTE ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
(SEE FORM 8260-10)

QUALITY CHECK 9

CITY AND STATE	ELEVATION: 1016 THRE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
IOLA, KS	AIRPORT NAME: ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	AMDT: ORIG-A
				DATED 02/10/2011

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] **ZKC, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **JOSE ALFONSO (KISSY MAXFIELD)**	FIFO **AJV-353**	DATE: **12/15/2011**

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

CHANGES:

1. REMOVED FEEDER FROM NALLY TO ZABIC.
2. ZABIK TO VUGBY INITIAL CHANGED TO KUBPE TO VUGBY.
3. VUGBY TO HEKBO FINAL COURSE/DISTANCE CHANGED FROM 009.39/6.10 TO 099.41/6.03.
4. REMOVED SDF UCUGE.
5. HOLDING INBOUND COURSE CHANGED FROM 009.39 TO 009.41.
6. FINAL COURSE CHANGED FROM 009.41 TO 009.39.
7. ADDED LPV AND LNAV/VNAV LINES OF MINIMUM.
8. LNAV MDA INCREASED FROM 1460 TO 1480, INCREASED HAT FROM 447 TO 475.
9. CHANGED CIRCLING HAA CAT A/B FROM 505 TO 504, CAT C CHANGED FROM 605 TO 624.
10. LNAV CAT C VISIBILITY CHANGED FROM 1 1/4 TO 1 3/8.
11. UPDATED ALTIMETER BACKUP NOTE.
12. ADDED BARO-VNAV NA NOTE.
13. ADDED LNAV/VNAV CRITICAL TEMPERATURE NOTE.
14. ADDED PROCEDURE NA FOR ARRIVAL ON CNU VORTAC.

REASONS:

1, 2, 7. PER FPT REQUEST.
3, 5, 6. RELOCATED LOCATED PFAF PER 8260.54A CRITERIA.
4. MDA CANNOT BE LOWERED AT LEAST 60 FT.
8. REMOVED SDF.
9. AIRPORT ELEVATION CHANGED FROM 1015 TO 1016.
10. PER NEW 8260.19D CHANGE 20 CRITERIA.
11. ADDED LPV AND LNAV/VNAV.
12, 13. ADDED LNAV/VNAV LINE OF MINIMUM.
14. TURNS GREATER THAN 90 DEGREES FROM AIRWAY TO INITIAL.

PDF EDITS:
1. ADDED FAF TO HEKBO.
2. CHANGED ALTITUDE FROM 1255 TO 3000.

QUALITY CHECKED 9

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CHANUTE ALTIMETER SETTING AND INCREASE ALL DA 32 FEET AND ALL MDA 40 FEET.
CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CNU VORTAC AIRWAY RADIALS 356 CW 141.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1016 THRE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
IOLA, KS	AIRPORT NAME: ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	AMDT: ORIG-A
				DATED: 02/10/2011

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

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	K88
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	375139.1370N
LTP/FTP LONGITUDE	0952320.9920W
LTP/FTP ELLIPSOIDAL HEIGHT	+02752
FPAP LATITUDE	375305.9100N
FPAP LONGITUDE	0952254.9100W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	6EABA52D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03063
FPAP ORTHOMETRIC HEIGHT	+03063

QUALITY CHECKED

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				DATED: 02/10/2011

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☐ 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

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-8 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CNU   K3010920VDLW N37373408W095353643    N37373408W095353643E0050010801     NARCHANUTE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HEKBO K30    W     N37465659W095244580                      E0029     NAR           HEKBO
        SUSAEAENRT   KUVPE K30    C   L N37345615W095170140                      E0028     NAR           KUVPE
        SUSAEAENRT   TIGAY K30    W     N38030593W095195381                      E0028     NAR           TIGAY
        SUSAEAENRT   VUGBY K30    W     N37410397W095263170                      E0029     NAR           VUGBY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP K88 K3AK88     0     055YHN37520560W095231300E004001016         1800018000C    MNAR    ALLEN COUNTY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP K88 K3FR01   ACNU   010CNU  K3D 0V  A    IF                                                18000                 A JS
        SUSAP K88 K3FR01   ACNU   020VUGBYK3EA0EE B 010TF                    06010080    + 03000                             A JS
        SUSAP K88 K3FR01   AKUVPE 010KUVPEK3EA0E  A    IF                                                18000                 A JS
        SUSAP K88 K3FR01   AKUVPE 020VUGBYK3EA0EE B 010TF                    30510097    + 03000                             A JS
        SUSAP K88 K3FR01   AVUGBY 010VUGBYK3EA0EE AR   HF                    00940040    + 03000     18000                   A JS
        SUSAP K88 K3FR01   R      010VUGBYK3EA0E  I    IF                                + 03000     18000                   A JS
        SUSAP K88 K3FR01   R      020HEKBOK3EA1E  F 051TF                    00940060    + 02600                 RW01  K3PGA JS
        SUSAP K88 K3FR01   R      020HEKBOK3EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP K88 K3FR01   R      030RW01 K3PG0GY M 031TF                    00940048      01060             -300            A JS
        SUSAP K88 K3FR01   R      040         0  M     CA                    0094        + 01255                             A JS
        SUSAP K88 K3FR01   R      050TIGAYK3EA0EY      DF                                + 03000                             A JS
        SUSAP K88 K3FR01   R      060TIGAYK3EA0EE  R   HM                    18950040    + 03000                             A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP K88 K3GRW01    0055010094 N37513914W095232099+0200    +0275201005000055099R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP K88 K3PR01   RW01 001 0000W01A0N3751391370W09523209920+027520300N3753059100W095225491001067510720005 52F4005006EABA52D
        SUSAP K88 K3PR01   RW01 002E      +03063+03063LPV       86628
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1016 THRE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
IOLA, KS	AIRPORT NAME: ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	AMDT: ORIG-A
				DATED: 02/10/2011

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:

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP K88 K3SRW01 K3PG                0   18018002725                                                                          M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 1016 THRE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
IOLA, KS	AIRPORT NAME: ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	AMDT: ORIG-A
				DATED: 02/10/2011

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☐ 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 - 424-8 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CNU	CNU	010	IAF	IF		FB					
	CNU	VUGBY	020		TF		FB	1.0	060.1(064.1T)	008.0	AA 03000	
	KUVPE	KUVPE	010	IAF	IF		FB					
	KUVPE	VUGBY	020		TF		FB	1.0	305.1(309.1T)	009.7	AA 03000	
	VUGBY	VUGBY	010	IAF	HF	R	FO		009.4(013.4T)	004.0	AA 03000	
		VUGBY	010	FACF	IF		FB				AA 03000	
		HEKBO	020	FAF	TF		FB	0.5	009.4(013.4T)	006.0	AA 02600	
		RW01	030	MAP	TF		FO	0.3	009.4(013.4T)	004.8	AT 01060	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		009.4(013.4T)		AA 01255	
	TIGAY	050		DF		FO				AA 03000	
	TIGAY	060		HM	R	FO		189.5(193.5T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CNU	N373734.08	W0953536.43	N3737.568	W09535.607
	HEKBO	N374656.59	W0952445.80	N3746.943	W09524.763
	KUVPE	N373456.15	W0951701.40	N3734.936	W09517.023
	TIGAY	N380305.93	W0951953.81	N3803.099	W09519.897
	VUGBY	N374103.97	W0952631.70	N3741.066	W09526.528
	RW01	N375139.14	W0952320.99	N3751.652	W09523.350

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW01	01005	55

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 1016 THRE: 1005	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
IOLA, KS	AIRPORT NAME: ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	AMDT: ORIG-A
				DATED: 02/10/2011

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	KUVPE	VUGBY	1. TOWER (20-001313)	373613.00N/0951631.00W	1691 (3C)	1000	AT309	3000
			2. TERRAIN	374151.00N/0952236.00W	1011 (1000)		AS1500	2500
INITIAL	CNU VOR/DME	VUGBY	3. TOWER (20-001847)	374156.00N/0952733.00W	1387 (2C)	1000	AT613	3000
			4. TERRAIN	373739.60N/0953500.70W	1100 (1100)		AS1500	2600
INTERMEDIATE	VUGBY (IF/IAF)	HEKBO	3. TOWER (20-001847)	374156.00N/0952733.00W	1387 (2C)	500	AT713	2600
			5. TERRAIN	374433.00N/0952257.00W	1024 (1000)		AS1500	2500
FINAL: LPV	HEKBO	RW01	6. TREE (KK88T0028)	375133.43N/0952327.93W	1039 (1A)	34:1		1255/250
FINAL: LNAV/VNAV	HEKBO	RW01	7. TWY (KK88T0015)	375152.79N/0952311.76W	1010 (1A)	PDA		1255/250
FINAL: LNAV	HEKBO	RW01	8. AAO	374654.92N/0952335.36W	1219 (2C)	250		1480
2. HOLD-IN-LIEU-OF-PT	VUGBY	P-5	3. TOWER (20-001847)	374156.00N/0952733.00W	1387 (2C)	1000	AT613	3000
			9. TERRAIN	373048.00N/0952612.00W	1067 (1100)		AS1500	2600
3. MISSED APPROACH — MAP:	DA / DA / RW01	TIGAY				ASC		3000
			10. TOWER (20-000936)	375724.00N/0952217.00W	1482 (5D)	1000		2500
ELEV:	1065/1105/1380		11. TERRAIN	380400.00N/0952154.00W	1149 (1100)		AS1500	2600
			12. TREE (KK88T0042)	375147.12N/0952431.22W	1104 (2C)	300	XP116	1520
			12. TREE (KK88T0042)	375147.12N/0952431.22W	1104 (2C)	300	XP116	1520
			13. TWR (KK88T0043)	375402.54N/0952356.14W	1322 (2A)	300		1640

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	504
CATEGORY B	1.5 NM	450	504
CATEGORY C	1.7 NM	450	624
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW01

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (20-001313)	157/ 16.3	1691 (3C)	2700					

CITY AND STATE	ELEVATION: 1016 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
IOLA, KS	ALLEN COUNTY	RNAV	RNAV (GPS) RWY 1, AMDT 1	ACE

QUALITY CHECKED 9

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZKC ARTCC ICT FSS		N W S	OTHER:	SOURCE: KK88 / KCNU
				DISTANCE: 0 / 12.83
		F A A	AWOS	HOURS REMOTE OPERATION:
				24
SATISFACTORY ON:		A / C		
X V H F X U H F H F	LOCATION: KK88			ADJUSTMENT: 0 / 32

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

5. APPROACH & RUNWAY LIGHTING		
		ALS
		(S) SALS
		MALS
	X	HIRL 01 (PCL), 19 (PCL)
		MIRL
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) NULL 01 (PCL), 19 (PCL) PAPI-4L 01, 19

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 01, 19
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	

8. GLIDE PATH		
	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1004.3
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 55.2

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

10. WAIVERS: NONE

PART D - PREPARED BY: JOSE ALFONSO (KISSY MAXFIELD)	DATE: 12/15/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLE PENETRATE VDP SURFACE.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

RASS PRESSURE PATTERNS SAME
KK88 1015.6, KCNU 1002
RA=31.41

TAA NOT DEVELOPED PER ATC REQUEST.

VGSI DATA: 3.00/55.2

VEGETATION HEIGHT 25 FT USED PER FPO.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
20:1:
RWY 01:
1039 TREE (KK88T0028) 375133.43N/0952327.93W (9.57)
1019 TREE (KK88T0025) 375134.71N/0952319.48W (3.72)

34:1:
1023 RD (KK88T0027) 375134.40N/0952327.61W (6.65)
1040 TREE (KK88T0029) 375128.72N/0952328.23W (6.88)
1043 TREE (KK88T0030) 375126.58N/0952327.97W (3.83)

LPV SLOPE: 34:1
LNAV/VNAV: 23.4:1

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30C ISA DEVIATION.

KK88 AWOS NOT ON SERVICE A.
KCNU ASOS ON SERVICE A.

RETAINED CIRCLING MDA PER PREVIOUS PROCEDURE, FPT REQUEST.

XP116: ADJUSTMENT 116 FT TO MATCH CURRENT CIRCLING MDA.

CALCULATED BARO VNAV HIGH TEMP 89C (192F), 54C (130F) PUBLISHED.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HEKBO **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 374656.59N/0952445.80W **TYPE:** WP

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

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

REMARKS:
RNP PFAF CRITERIA USED IAW 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 1			KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
MOVED FIX 371.72 SOUTH.
REMOVED FAC 1 FROM FIX MAKE-UP FACILITIES.

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (KISSY MAXFIELD)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KUVPE **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 373456.15N/0951701.40W **TYPE:** WP, DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	CHANUTE	CNU	VOR/DME	L	095.00	100.00	15.00	15.00		2800	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V132	1				(US)
IAP	RNAV (GPS) RWY 1			KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (KISSY MAXFIELD)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TIGAY **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 380305.93N/0951953.81W **TYPE:** WP

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

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	N		WP	009.42	189.45	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (20-000971)	381017.00N/0951759.00W	1457	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISH PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 1		1	KK88	IOLA	KS (US)
IAP	RNAV (GPS) RWY 19		1	KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP FACILITIES.
ADDED PRECIPITOUS TERRAIN REMARK.
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN NOTE FROM REMARKS TO HOLDING RESTRICTIONS.

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (KISSY MAXFIELD)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VUGBY **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 374103.97N/0952631.70W **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	189.41	009.41	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (20-001847)	374156.00N/0952733.00W	1387	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 01		1	KK88	IOLA	KS (US)
IAP	RNAV (GPS) RWY 19		1	KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
REMOVED FAC 1 FROM FIX MAKEUP FACILITIES.
ADDED PRECIPITOUS TERRAIN REMARK.
MOVED HOLDING LIMITED TO ESTABLISHED PATTERN NOTE FROM REMARKS TO HOLDING RESTRICTIONS.
CHANGED HOLDING INBOUND COURSE FROM 9.39 TO 9.41.
HOLDING OBSTACLE REMAINED THE SAME.

DEVELOPED BY: **DATE:** 12/14/2011 **OFFICE:** AJV-353 **NAME:** JOSE ALFONSO (KISSY MAXFIELD)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CHANUTE VOR/DME **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 373734.08N/0953536.43W **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	FEET	MRA	MAA
1	CHANUTE	CNU	VOR/DME	L							17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	CNU	VOR/DME	238.77	058.77	R	1		2800	10000	4	9
2	N	CNU	VOR/DME	008.00	188.00	R	1		2600	10000	4	9
3	N	CNU	VOR/DME	341.42	161.42	L	1		3000	10000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (20-002744)	373559.20N/0953910.90W	1540	4D
2	200	TOWER (20-020059)	374208.20N/0953540.96W	1541	5D
3	200	TOWER (20-020059)	374208.20N/0953540.96W	1541	5D

REASON FOR NONSTANDARD HOLDING:
PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

INFO ONLY

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TULSA			KRVS	TULSA	OK (US)
DP	TULSA			KTUL	TULSA	OK (US)
EN ROUTE	V132					(US)
EN ROUTE	V307					(US)
EN ROUTE	V350					(US)
EN ROUTE	V131					KS (US)
IAP	NDB RWY 36			KUKL	BURLINGTON	KS (US)
IAP	VOR-A		1	KCNU	CHANUTE	KS (US)
IAP	VOR/DME RWY 18			K13K	EUREKA	KS (US)
IAP	NDB RWY 1			KK88	IOLA	KS (US)
IAP	RNAV (GPS) RWY 1			KK88	IOLA	KS (US)
IAP	VOR OR GPS RWY 2		2	K2K7	NEODESHA	KS (US)
IAP	VOR/DME RWY 17		3	KPPF	PARSONS	KS (US)
STAR	JHAWK			KMCI	KANSAS CITY	MO (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
HOLDING PAT 1 CHANGES: RAD/CRS INBOUND FROM 239.00/059.00 TO 238.77/058.77; MIN ALT FROM 2600 TO 2800.
HOLDING PAT 1, 2, 3: OBST DATA UPDATED.
RESTRICTIONS/REMARKS UPDATED.
FIX USE UPDATED.

DEVELOPED BY: **DATE:** 11/18/2009 **OFFICE:** AVN-120 **NAME:** ANGELO VENTRESCA

APPROVED BY: **DATE:** 03/23/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **IOLA** STATE: **KS**

AIRPORT NAME: **ALLEN COUNTY** ID: **KK88**

PROCEDURE: **RNAV (GPS) RWY 01** AMDT: **1**

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 **2.95**
   (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 **013.39**
4. High Terrain in **FINAL** segment containing 1000' point **1027**
5. Distance from **THLD** to 1500' point **4.64**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **013.39**
8. High Terrain in **FINAL** segment containing 1500' point **1027**
9. Threshold Coordinates (if straight-in) ... **375139.14N** / **0952320.99W**
10. ARP Coordinates ..... **375205.60N** / **0952313.00W**
11. Runway Approach End and distance furthest from ARP ..... RWY **1**
    Distance **0.45** NM
12. FAF Coordinates ..... **374656.59N** / **0952445.80W**

REMARKS: Approach/Drawing attached.

RADIO FIX AND HOLDING DATA RECORD

NAME: UCUGE **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 374913.07N/0952404.95W **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	KK88 R01					193.42	2.50			1760	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ALLEN COUNTY (KK88) - RNAV (GPS) RWY 1			KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/12/2009

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

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

CANCELLED

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZABIK **STATE:** KS **COUNTRY:** US

LATITUDE/LONGITUDE: 373954.26N/0952024.14W **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	VUGBY					103.39	5.00				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ALLEN COUNTY (KK88) - RNAV (GPS) RWY 1			KK88	IOLA	KS (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/12/2009

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

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZKC
ATC FACILITY:
OTHER:

CANCELLED

BY:

QUALITY CHECKED