Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/27/2009	Task #: 2009102714937201002	Request #: 20091027149372
Procedure: RNAV (GPS) RWY 7 AMDT 1		Airport ID: K5M9	Airport: MARION-CRITTENDEN COUNTY		Reimbursable #:
City: MARION	ST: KY	GPS #:		Estimated Chart Date: 03/07/2013	FICO #:
Fac ID:	Fac. Type: LPV	Specialist: CASIMIR TABAKA(Contractor)			

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/31/2012	11/20/2012	CASIMIR TABAKA	
QA:	11/20/2012	11/20/2012	CASIMIR TABAKA	
Liaison:	11/20/2012		Spurlin	

PJ

Procedure Comments: ENROUTE-NON **Remark Type:** INFORMATION

pkg 2 of 3

MARION, KY MARION-CRITTENDEN COUNTY (K5M9) RNAV (GPS) RWY 7, AMDT 1 (LPV) ENROUTE-NO FC: 1.22.13 PUB: 3.7.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ELOCU, REV 1; FEVOD, REV 1; HAMIV, REV 1; HEVPU, ORIG; IDASE, ORIG; ZETOB, ORIG.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

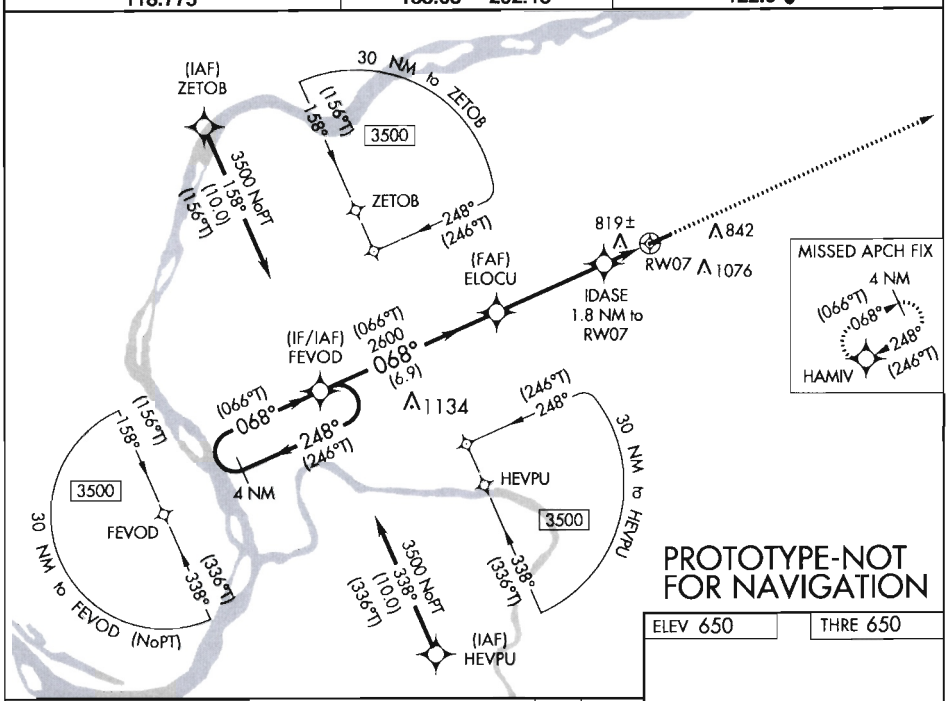
RNAV (GPS) RWY 7
MARION-CRITTENDEN COUNTY (5M9)

WAAS CH 90531 W07A	APP CRS 068°	Rwy ldg 4400 THRE 650 Apt Elev 650

Baro-VNAV NA when using Henderson altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 54°C (130°F). Straight-in and Circling Rwy 7 procedures NA at night. DME/DME RNP-0.3 NA. Helicopter visibility reduction below 1 SM not authorized. When local altimeter setting not received, use Henderson altimeter setting and increase all DA 117 feet, increase all MDA 120 feet, increase all LPV visibility ¼ mile, increase all LNAV/VNAV visibility ⅝ mile, increase LNAV Cats C and D visibility ⅜ mile, increase Circling Cat C visibility ¼ mile, and increase Circling Cat D visibility ½ mile.

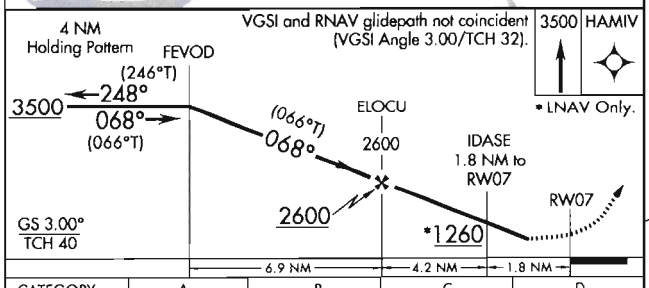
MISSED APPROACH: Climb to 3500 direct HAMIV and hold.

STURGIS MUNI AWOS-3	MEMPHIS CENTER	CTAF
118.775	133.65 292.15	122.9 L



PROTOTYPE-NOT FOR NAVIGATION

ELEV 650	THRE 650



ELOCU: 3717.612'/08813.883'
FEVOD: 3714.822'/08821.791'
HAMIV: 3725.525'/08751.261'
HEVPU: 3705.663'/08816.735'
IDASE: 3719.306'/08809.065'
ZETOB: 3723.997'/08826.867'
RW07: 3720.031'/08806.999'

068° to RW07

CATEGORY	A	B	C	D
LPV DA	900-1 250 (300-1)			
LNAV/VNAV DA	1132-1⅝ 482 (500-1⅝)			
LNAV MDA	1080-1 430 (500-1)		1080-1¼ 430 (500-1¼)	
CIRCLING	1180-1 530 (600-1)	1200-1 550 (600-1)	1200-1½ 550 (600-1½)	1380-2¼ 730 (800-2¼)

MIRL Rwy 7-25 L
REIL Rwys 7 and 25 L

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
ZETOB (IAF)	FEVOD (NOPT) (FB)	158.09 / 10.00	3500
HEVPU (IAF)	FEVOD (NOPT) (FB)	338.19 / 10.00	3500
FEVOD (IF/IAF)	ELOCU (FB)	068.14 / 6.90	2600
ELOCU (FAF)	IDASE/1.80 NM TO RW07 (FB)	068.22 / 4.20	
IDASE/1.80 NM TO RW07	RW07 (MAP) (FO)	068.22 / 1.80	
RW07 (MAP)	900 MSL	068.22	
900 MSL	HAMIV (FO)		3500

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW07

CLIMB TO 3500 DIRECT HAMIV AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD E, RT, 248.45 INBOUND.
CHART FAS OBST: 819 TREE 371956N/0880820W
DISTANCE TO THLD FROM 250 HATH: 0.66 NM.
WAAS CHANNEL # 90531
REFERENCE PATH ID: W07A
LTP HAE: 168.7 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD W FEVOD, RT, 068.14 INBOUND, 3500 FT. IN LIEU OF PT (IAF)
3. FAC: 068.22 FAF: ELOCU DIST FAF TO MAP: 6.00 THLD: 6.00
4. MIN. ALT: FEVOD 3500, ELOCU 2600, IDASE/1.80 NM TO RW07 1260*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2600 GS ALT AT: ELOCU 2600 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 2W EPOCH YEAR: 2005

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	900	1	250	900	1	250	900	1	250	900	1	250			
LNAV/VNAV DA	1132	1 5/8	482	1132	1 5/8	482	1132	1 5/8	482	1132	1 5/8	482			
LNAV MDA	1080	1	430	1080	1	430	1080	1 1/4	430	1080	1 1/4	430			
CIRCLING	1180	1	530	1200	1	550	1200	1 1/2	550	1380	2 1/4	730			

NOTES:
CHART NOTE: BARO-VNAV NA WHEN USING HENDERSON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
(SEE FORM 8260-10)

@ CAT D 800-2 1/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 650 THRE: 650	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
MARION, KY	AIRPORT NAME: MARION-CRITTENDEN COUNTY	RNAV	RNAV (GPS) RWY 7, AMDT 1	AMDT: ORIG
				DATED 12/22/2005

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] ZID, ZME, AMGR, EST FPT

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: DONALD E. SMITH (WES COMBS)	FIFO AJV-352	DATE: 11/13/2012

APPROVED BY		
NAME: SUSAN CRUMB MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. REMOVED ALL FEEDERS AND INITIAL FROM CNG VORTAC
2. ADDED INITIAL SEGMENTS FROM ZETOB AND HEVPU
3. REPLACED MSA WITH A T DESIGN TAA
4. LENGTHENED FEVOD INTERMEDIATE FROM 6.01 NM TO 6.90 NM
5. INTERMEDIATE/HIL INBOUND COURSE CHANGED FROM 68.17 TO 68.14
6. SHORTENED FEVOD HIL FROM 5 NM LEGS TO 4 NM LEGS
7. LENGTHENED FINAL FROM 5.92 NM TO 6.00 NM
8. FINAL COURSE CHANGED FROM 68.23 TO 68.22
9. ADDED LPV AND LNAV/VNAV MINIMA
10. ADDED "BARO-VNAV NA WHEN USING HENDERSON ALTIMETER SETTING" NOTE
11. ADDED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F)" NOTE
12. CHANGED "VGSI AND DESCENT ANGLES NOT COINCIDENT" TO "VGSI AND RNAV GLIDEPATH NOT COINCIDENT"
14. ADDED "STRAIGHT-IN AND CIRCLING RWY 7 PROCEDURES NA AT NIGHT" NOTE
13. CHANGED FINAL PROFILE FROM 3.05/32 TO 3.00/40

SEE 8260-10

REASONS:

1-3. ATC REQUEST
4. TO SUPPORT DTA FOR 90 DEGREE TURNS
5. THE CHANGE IN LENGTH CHANGED THE GEODESIC COURSE
6. IAW DME LENGTHS FROM 7130.3A
7. IAW PFAF FROMULA FROM 8260.54A
8. THE CHANGE IN LENGTH CHANGED THE GEODESIC COURSE
9. FPT REQUEST
10-12. ADDITION OF LNAV/VNAV AND LPV
13. GQS PENETRATIONS
14-16. VISUAL PORTION OF FINAL IS NOT CLEAR
17. TO LOWER LNAV MINIMA
18. ADDITION OF STEPDOWN FIX
22-23 ADDITION OF LOCAL AND BACKUP ALTIMETERS ON SERVICE A

QUALITY 3 CHECKED

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NOTES, (CONT.):
*LNAV ONLY
CHART NOTE: STRAIGHT-IN AND CIRCLING RWY 7 PROCEDURES NA AT NIGHT.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HENDERSON ALTIMETER SETTING AND INCREASE ALL DA 117 FEET, INCREASE ALL MDA 120 FEET, INCREASE ALL LPV VISIBILITY 1/4 MILE, INCREASE ALL LNAV/VNAV VISIBILITY 5/8 MILE, INCREASE LNAV CATS C AND D VISIBILITY 3/8 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE, AND INCREASE CIRCLING CAT D VISIBILITY 1/2 MILE.

TAA

	FROM	TO	ALT
1.	338/30 CW 158/30 (NOPT)	FEVOD (IF/IAF) (FB)	3500
2.	158/30 CW 248/30	ZETOB (IAF) (FB)	3500
3.	248/30 CW 338/30	HEVPU (IAF) (FB)	3500

QUALITY 3 CHECKED

CITY AND STATE	ELEVATION: 650 THRE: 650	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MARION, KY	AIRPORT NAME: MARION-CRITTENDEN COUNTY	RNAV	RNAV (GPS) RWY 7, AMDT 1	AMDT: ORIG
				DATED: 12/22/2005

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. CHANGED 34:1 FROM CLEAR TO NOT CLEAR
16. ADDED "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" NOTE
17. ADDED LNAV STEPDOWN FIX IDASE
18. ADDED *LNAV ONLY TO PROFILE VIEW
19. REPLACED STURGIS AND MADISONVILLE ALTIMETERS WITH LOCAL AND HENDERSON ALTIMETERS
20. LOWERED LNAV CEILING FROM 1160 (510) TO 1080 (430), LOWERED CATS C AND D VISIBILITY FROM 1 1/2 TO 1
21. LOWERED CIRCLING CAT A FROM 1200 (548) TO 1180 (530), CAT C FROM 1280 (628) - 1 3/4 TO 1200 (550) - 1 1/2, AND CAT D FROM 1460 (808) - 2 1/2 TO 1380 (730) - 2 1/4
22. ADDED "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HENDERSON ALTIMETER SETTING AND INCREASE ALL DA 117 FEET, INCREASE ALL MDA 120 FEET, INCREASE ALL LPV VISIBILITY 1/4 MILE, INCREASE ALL LNAV/VNAV VISIBILITY 5/8 MILE, INCREASE LNAV CATS C AND D VISIBILITY 3/8 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE, AND INCREASE CIRCLING CAT D VISIBILITY 1/2 MILE" NOTE
23. ENABLED ALTERNATE USE WITH 800-2 1/4 MINS AND NA WHEN LOCAL WEATHER NOT AVAILABLE

REASONS:

QUALITY 3 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	5M9
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	372001.8315N
LTP/FTP LONGITUDE	0880659.9515W
LTP/FTP ELLIPSOIDAL HEIGHT	+01687
FPAP LATITUDE	372037.6900N
FPAP LONGITUDE	0880517.6500W
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	1408
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8B501974

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01980
FPAP ORTHOMETRIC HEIGHT	+01980

QUALITY CHECKED 3

CITY AND STATE	ELEVATION: 650 THRE: 650	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MARION, KY	AIRPORT NAME: MARION-CRITTENDEN COUNTY	RNAV	RNAV (GPS) RWY 7, AMDT 1	AMDT: ORIG
				DATED: 12/22/2005

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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   ELOCU K50    W     N37173672W088135295                      W0024     NAR           ELOCU
        SUSAEAENRT   FEVOD K50    W     N37144932W088214744                      W0023     NAR           FEVOD
        SUSAEAENRT   HAMIV K50    W     N37253149W087511568                      W0027     NAR           HAMIV
        SUSAEAENRT   HEVPU K50    W     N37053980W088164408                      W0023     NAR           HEVPU
        SUSAEAENRT   IDASE K50    W     N37191833W088090392                      W0025     NAR           IDASE
        SUSAEAENRT   ZETOB K50    W     N37235861W088265202                      W0022     NAR           ZETOB

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 5M9 K5A5M9     0     044YHN37201058W088063501W002000650         1800018000C    MNAR    MARION-CRITTENDEN COUNTY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 5M9 K5FR07   AFEVOD 010FEVODK5EA0EE AR   HF                    06810040    + 03500     18000                A JS
        SUSAP 5M9 K5FR07   AHEVPU 010HEVPUK5EA0E  A    IF                                        18000                A JS
        SUSAP 5M9 K5FR07   AHEVPU 020FEVODK5EA0EE B 010TF                    33820100    + 03500                          A JS
        SUSAP 5M9 K5FR07   AZETOB 010ZETOBK5EA0E  A    IF                                        18000                A JS
        SUSAP 5M9 K5FR07   AZETOB 020FEVODK5EA0EE B 010TF                    15810100    + 03500                          A JS
        SUSAP 5M9 K5FR07   R      010FEVODK5EA0E  I    IF                               + 03500     18000                A JS
        SUSAP 5M9 K5FR07   R      020ELOCUK5EA1E  F 051TF                    06810069    + 02600                          A JS
        SUSAP 5M9 K5FR07   R      020ELOCUK5EA2WALPV       ALNAV/VNAV ALNAV                                                 JS
        SUSAP 5M9 K5FR07   R      021IDASEK5EA0E S  031TF                    06820042    V 0126001263        -300         A JS
        SUSAP 5M9 K5FR07   R      030RW07 K5PG0GY M 031TF                    06820018      00690             -300         A JS
        SUSAP 5M9 K5FR07   R      040         0  M     CA                    0682        + 00900                          A JS
        SUSAP 5M9 K5FR07   R      050HAMIVK5EA0EY      DF                               + 03500                          A JS
        SUSAP 5M9 K5FR07   R      060HAMIVK5EA0EE  R   HM                    24850040    + 03500                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 5M9 K5GRW07    0044000683 N37200183W088065995-0500    +0168700650000040075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 5M9 K5PR07   RW07 001 0000W07A0N3720018315W08806599515+016870300N3720376900W088051765001067514080004 00F4005008B501974
        SUSAP 5M9 K5PR07   RW07 002E      +01980+01980LPV       90531
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 650 THRE: 650	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MARION, KY	AIRPORT NAME: **MARION-CRITTENDEN COUNTY**	**RNAV**	**RNAV (GPS) RWY 7, AMDT 1**	AMDT: **ORIG**
				DATED: **12/22/2005**

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
	FEVOD	FEVOD	010	IAF	HF	R	FO		068.1(066.1T)	004.0	AA 03500	
	HEVPU	HEVPU	010	IAF	IF		FB					
	HEVPU	FEVOD	020		TF		FB	1.0	338.2(336.2T)	010.0	AA 03500	
	ZETOB	ZETOB	010	IAF	IF		FB					
	ZETOB	FEVOD	020		TF		FB	1.0	158.1(156.1T)	010.0	AA 03500	
		FEVOD	010	FACF	IF		FB				AA 03500	
		ELOCU	020	FAF	TF		FB	0.5	068.1(066.1T)	006.9	AA 02600	
		IDASE	021	SDF	TF		FB	0.3	068.2(066.2T)	004.2	AA 01260 GS 01263	
		RW07	030	MAP	TF		FO	0.3	068.2(066.2T)	001.8	AT 00690	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		068.2(066.2T)		AA 00900	
	HAMIV	050		DF		FO				AA 03500	
	HAMIV	060		HM	R	FO		248.5(246.5T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ELOCU	N371736.72	W0881352.95	N3717.612	W08813.883
	FEVOD	N371449.32	W0882147.44	N3714.822	W08821.791
	HAMIV	N372531.49	W0875115.68	N3725.525	W08751.261
	HEVPU	N370539.80	W0881644.08	N3705.663	W08816.735
	IDASE	N371918.33	W0880903.92	N3719.306	W08809.065
	ZETOB	N372358.61	W0882652.02	N3723.977	W08826.867
	RW07	N372001.83	W0880659.95	N3720.031	W08806.999

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW07	00650	40

QUALITY CHECKED 3

CITY AND STATE	ELEVATION: 650 THRE: 650	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MARION, KY	AIRPORT NAME: **MARION-CRITTENDEN COUNTY**	**RNAV**	**RNAV (GPS) RWY 7, AMDT 1**	AMDT: **ORIG**
				DATED: **12/22/2005**

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.
STRAIGHT-IN AREA	338/30 CW 158/30	FEVOD	1. TOWER (21-000045)	371131.00N/0885853.00W	2000 (4D)	1000	AT500	3500
			2. TERRAIN	373454.02N/0882834.01W	1064 (1100)		AS1500	2600
LEFT BASE AREA	158/30 CW 248/30	ZETOB	3. TOWER (17-000365)	373454.02N/0882834.01W	1318 (4D)	1000	AT1182	3500
			2. TERRAIN	373454.02N/0882834.01W	1064 (1100)		AS1500	2600
RIGHT BASE AREA	248/30 CW 338/30	HEVPU	4. TOWER (21-000549)	365701.00N/0874022.00W	1614 (4D)	1000	AT886	3500
			5. TERRAIN	365703.40N/0873820.10W	820 (800)		AS1500	2300
INITIAL	ZETOB	FEVOD	6. TOWER (21-002014)	371455.00N/0882042.00W	934 (2C)	1000	AT1566	3500
			7. TERRAIN	371931.50N/0882628.20W	690 (700)		AS1500	2200
INITIAL	HEVPU	FEVOD	8. TOWER (21-020085)	371415.74N/0881741.26W	1134 (1A)	1000	AT1366	3500
			9. TERRAIN	371406.00N/0882015.00W	670 (700)		AS1500	2200
INTERMEDIATE	FEVOD (IF/IAF)	ELOCU	8. TOWER (21-020085)	371415.74N/0881741.26W	1134 (1A)	500	AT966	2600
			10. TERRAIN	371415.74N/0881741.26W	741 (700)		AS1500	2200
FINAL: LPV	ELOCU	RW07	11. TREE (K5M9T0048)	372003.04N/0880706.19W	697 (2C)	34:1	AC20	900/250
FINAL: LNAV/VNAV	ELOCU	RW07	12. TREE	371955.71N/0880819.67W	819 (2C)	23.44:1	AC20	1132/482
2. HOLD-IN-LIEU-OF-PT	FEVOD	P-5	8. TOWER (21-020085)	371415.74N/0881741.26W	1134 (1A)	1000	AT1366	3500
			10. TERRAIN	371415.74N/0881741.26W	741 (700)		AS1500	2200
3. MISSED APPROACH MAP:	DA / DA / RW07	HAMIV				ASC		3500
			14. AAO	372341.89N/0875927.90W	919 (2C)	1000		2000
ELEV:	713/971/980		15. TERRAIN	372341.89N/0875927.90W	719 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350	530		16. TREE	372041.50N/0880803.96W	863 (2A)	300		1180
CATEGORY B	1.5 NM	450	550		17. TREE	372107.37N/0880813.31W	889 (2C)	300		1200
CATEGORY C	1.7 NM	450	550		18. TREE	372107.31N/0880820.25W	894 (2A)	300		1200
CATEGORY D	2.3 NM	550	730		19. TOWER (21-001395)	371900.00N/0880434.00W	1076 (1A)	300		1380
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: 650 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MARION, KY	MARION-CRITTENDEN COUNTY	RNAV	RNAV (GPS) RWY 7, AMDT 1	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZME ARTCC LOU FSS 5M9 CTAF	N W S	OTHER: AWOS-3	SOURCE: K5M9 / KEHR
	F A A		DISTANCE: 0 / 34.75
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: K5M9		ADJUSTMENT: 0 / 120

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 25 (PCL), 07 (PCL)
	X	REIL 25 (PCL), 07 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 25 (PCL), 07 (PCL)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 25, 07
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 649.9
	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

QUALITY CHECKED

PART D - PREPARED BY: DONALD E. SMITH (WES COMBS)	DATE: 11/13/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLE PENETRATE 20:1 SURFACE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: 3.00/32.

LPV SLOPE: 34.00:1.

LNAV/VNAV SLOPE: 23:44:1.

K5M9 AND KEHR ARE ON SERVICE A.

AVERAGE COLD TEMPERATURE BASED ON STANDARD -30 C ISA DEVIATION. HISTORICAL DATA NOT AVAILABLE.

RASS PRESSURE PATTERNS SAME —
K5M9 649.6, KEHR 386.7
RA = 116.74.
SEE ATTACHED AIRSPACE LETTER. —

3500 USED IN INITIALS AND TAA PER ATC REQUEST.

AVERAGE VEGETATION ASSUMED TO BE 100 FT PER FPT.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL PENETRATIONS":
20:1
R07
696 TREE (K5M9T0047) 372003.79N/0880705.63W (39.39)
697 TREE (K5M9T0048) 372003.04N/0880706.19W (36.80)
711 TREE (K5M9T0053) 371952.87N/0880713.05W (4.77)
707 TREE (K5M9T0052) 371953.90N/0880713.22W (2.23)
34:1
686 POLE (K5M9T0051) 371954.26N/0880711.34W (8.47)
707 TREE (K5M9T0056) 371955.48N/0880724.14W (3.10)
706 TREE (K5M9T0055) 371954.98N/0880723.70W (2.46)

LNAV AND CIRCLING MINIMA LOWERED WITH FPT AND TERRAIN AND OBSTACALE DATA TEAM APPROVAL.

250 KIAS AND 19 DEGREE BANK ANGLE USED TO DETERMINE INTIAL LEG LENGTHS.

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	ELOCU	IDASE/1.80 NM TO	13. AAO	371758.62N/0881201.16W	869 (2C)	250	RA120 DG21	1260
		RW07						
FINAL: LNAV STEPDOWN	IDASE/1.80 NM TO	RW07	12. TREE	371955.71N/0880819.67W	819 (2C)	250		1080
	RW07							

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		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MARION, KY	ELEVATION: 650 AIRPORT NAME: MARION-CRITTENDEN COUNTY	RNAV	RNAV (GPS) RWY 7, AMDT 1	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		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:

RADIO FIX AND HOLDING DATA RECORD

NAME: ELOCU **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 371736.72N/0881352.95W **TYPE:** WP

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

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

REMARKS:
8260.54A PFAF FORMULA USED TO ESTABLISH COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 7			K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
MOVED FIX 464.68 FT SOUTHWEST.
UPDATED FIX USE.
DELETED MAKEUP FAC 1.

DEVELOPED BY: **DATE:** 09/19/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FEVOD **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 371449.32N/0882147.44W **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	W		WP	248.14	068.14	R		4	3500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-020085)	371415.74N/0881741.26W	1134	1A

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 25		1	K5M9	MARION	KY (US)
IAP	RNAV (GPS) RWY 7		1	K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
MOVED FIX 5886.32 FT WEST.
DELETED FIX MAKEUP FAC 1.
CHANGED PAT 1 CRS INBOUND FROM 68.16 TO 68.14.
CHANGED PAT 1 DME FROM 5 TO 4.
UPDATED PAT 1 CONTROLLING OBSTACLE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/19/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY CHECKED 3

RADIO FIX AND HOLDING DATA RECORD

NAME: HAMIV **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 372531.49N/0875115.68W **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	E		WP	068.45	248.45	R		4	3500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (21-001972)	373153.62N/0874051.82W	905	1A

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 25		1	K5M9	MARION	KY (US)
IAP	RNAV (GPS) RWY 7		1	K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 03/07/2013

REASON FOR REVISION:
FIX MOVED 5878.72 FT EAST.
DELETED FIX MAKEUP FAC 1.
CHANGED PAT 1 DME FROM 5 TO 4.
UPDATED PAT 1 CONTROLLING OBSTACLE.
MOVED HOLDING LIMITATION FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HEVPU **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 370539.80N/0881644.08W **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 7			K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/07/2013

DEVELOPED BY: **DATE:** 11/08/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IDASE **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 371918.33N/0880903.92W **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 7			K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/07/2013

DEVELOPED BY: **DATE:** 11/08/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZETOB **STATE:** KY **COUNTRY:** US

LATITUDE/LONGITUDE: 372358.61N/0882652.02W **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 7			K5M9	MARION	KY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/07/2013

DEVELOPED BY: **DATE:** 11/08/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (WES COMBS)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZME
ATC FACILITY:
OTHER:

QUALITY 3 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: MARION STATE: KY

AIRPORT NAME: MARION-CRITTENDEN COUNTY ID: K5M9

PROCEDURE: RNAV (GPS) RWY 7 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 3.16
   (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 066.22
4. High Terrain in FINAL segment containing 1000' point 719
5. Distance from THLD to 1500' point 5.20
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of FINAL segment at 1500' point 1.39
7. True Course of FINAL segment containing 1500' point 066.22
8. High Terrain in FINAL segment containing 1500' point 719
9. Threshold Coordinates (if straight-in) ... 372001.83N / 0880659.95W
10. ARP Coordinates ..... 372010.58N / 0880635.01W
11. Runway Approach End and distance furthest from ARP.....RWY 25
    Distance 0.36 NM
12. FAF Coordinates ..... 371736.72N / 0881352.95W
    (Click to Select)

REMARKS:

APPROACH/DRAWING ATTACHED.