

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KGDA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> MARION	<u>STATE</u> KY		
<u>AIRPORT ELEVATION</u> 653	<u>TDZE</u> 653	<u>SUPERSEDED</u> RNAV (GPS) RWY 7	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 12/31/2020	<u>MAG VAR</u> 2W	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 05/19/2022	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 338/30 CW 158/30	NOPT	FEVOD	IF/IAF	3500
2. 158/30 CW 248/30		ZETOB	IAF	3500
3. 248/30 CW 338/30		HEVPU	IAF	3500

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZETOB	IAF	FEVOD	NOPT	TF	FB	1.00	158.09	10.00	3500
HEVPU	IAF	FEVOD	NOPT	TF	FB	1.00	338.19	10.00	3500
FEVOD	IF/IAF	ELOCU		TF	FB	1.00	068.14	6.81	2600
ELOCU	FAF	IDASE/1.78 NM TO RW07		TF	FB	0.30	068.23	4.21	
IDASE/1.78 NM TO RW07		RW07	MAP	TF	FO	0.30	068.23	1.78	
RW07	MAP	903 MSL		CA			068.23		
903 MSL		HAMIV		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW07

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT HAMIV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
2
CHECKED

PROFILE:

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), MAX 6000.

3. FAC: 068.23FAF: ELOCUDIST FAF TO MAP: 5.99DIST FAF TO THLD: 5.99

4. MIN ALT: FEVOD 3500, ELOCU 2600, IDASE/1.78 NM TO RW07 1260

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.66GS ANT:

6. MIN GP INCPT: 2600GP ALT AT PFAF : ELOCU 2600OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS NOT CLEARTCH: 40.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 7 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART NOTE: STRAIGHT-IN RWY 7 NA AT NIGHT, CIRCLING RWY 7 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
HOLD E, RT, 248.45 INBOUND.
CHART FAS OBST: 785 TREE (21-078535) 372001N/0880826W.
790 TREE 372034N/0880323W.
WAAS CHANNEL # 90531
REFERENCE PATH ID: W07A
LTP HAE: 169.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	903	1	250	903	1	250	903	1	250	903	1	250			
LNAV/VNAV DA	1132	1 3/8	479	1132	1 3/8	479	1132	1 3/8	479	1132	1 3/8	479			
LNAV MDA	1080	1	427	1080	1	427	1080	1 1/4	427	1080	1 1/4	427			
CIRCLING	1180	1	527	1360	1	707	1380	2	727	1380	2 1/4	727			



CHANGES - REASONS

1. AIRPORT IDENT CHANGED FROM K5M9 TO KGDA - PER FPT CHECKLIST, UPDATED AIRPORT DATA.
2. AIRPORT ELEVATION AND TDZE CHANGED FROM 650 TO 653 - UPDATED AIRPORT DATA.
3. DISTANCE FROM FEVOD IF/IAF TO ELOCU CHANGED FROM 6.90 TO 6.81 - PFAF (ELOCU) MOVED 543.93 FEET SOUTHWEST, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.
4. ALL INSTANCES OF 'IDASE/1.80 NM TO RW07' CHANGED TO 'IDASE/1.78 NM TO RW07' - FINAL STEPDOWN (IDASE) MOVED 490.03 FEET SOUTHWEST.
5. DISTANCE AND COURSE FROM ELOCU TO 'IDASE/1.78 NM TO RW07' CHANGED FROM 068.22/4.20 TO 068.23/4.21 - PFAF (ELOCU) MOVED 543.93 FEET SOUTHWEST.
6. DISTANCE AND COURSE FROM 'IDASE/1.78 NM TO RW07' TO RW07 CHANGED FROM 068.22/1.90 TO 068.23/1.78 - FINAL STEPDOWN (IDASE) MOVED 490.03 FEET SOUTHWEST.
7. PROFILE LINE 3 FAC: 068.22 CHANGED TO 068.23 AND DIST FAF TO MAP/THLD: 6.00 CHANGED TO 5.99 - PFAF (ELOCU) MOVED 543.93 FEET SOUTHWEST, FINAL STEPDOWN (IDASE) MOVED 490.03 FEET SOUTHWEST.
8. REMOVED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - UPDATED AIRPORT DATA, VGSI DATA: 3.00/40.
9. PBN REQUIREMENTS NOTE 'RNP APCH' CHANGED TO 'RNP APCH - GPS' - IAW 8260.19I 8-6-8, B(2).
10. UPDATED AND MOVED TO 8260-9 PART C FOR CONTINGENCY USE: CHART NOTE 'BARO-VNAV AND VDP NA WHEN USING HENDERSON ALTIMETER SETTING' CHANGED TO 'BARO-VNAV AND VDP NA WHEN USING STURGIS ALTIMETER SETTING' - PER THE FPT, PRIMARY WEATHER SOURCE ON WMSCR.
11. UPDATED AND MOVED TO 8260-9 PART C FOR CONTINGENCY USE: 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 SM, INCREASE ALL LNAV/VNAV VISIBILITY 1/2 SM, INCREASE LNAV CATS C AND D VISIBILITY 3/8 SM, INCREASE CIRCLING CAT B VISIBILITY 1/4 SM, INCREASE CIRCLING CAT C AND D VISIBILITY 1/2 SM' CHANGED TO 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE STURGIS ALTIMETER SETTING AND INCREASE LPV DA TO 976 FEET; INCREASE LNAV/VNAV DA TO 1205 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM' - PER THE FPT, PRIMARY WEATHER SOURCE ON WMSCR.
12. ADDITIONAL FLIGHT DATA: CHART FAS OBST FROM '819 TREE 371956N/0880820W' CHANGED TO '785 TREE (21-078535) 372001N/0880826W' - NEW CONTROLLING OBSTACLE IAW 8260.19I, 8-6-10, C.
13. ADDITIONAL FLIGHT DATA: ADDED '790 TREE 372034N/0880323W' - HIGHEST 7:1 OBSTACLE IAW 8260.19I, PARA 8-6-10(E)(1).
14. ADDITIONAL FLIGHT DATA: LTP HAE: '168.7 M' CHANGED TO '169.7 M' - UPDATED EVALUATION.
15. LPV DA ALL CATS CHANGED FROM 900 TO 903 - TDZE CHANGED FROM 650 TO 653.
16. LNAV/VNAV HAT ALL CATS CHANGED FROM 482 TO 479 - TDZE CHANGED FROM 650 TO 653.
17. LNAV/VNAV VISIBILITY ALL CATS CHANGED FROM 1-5/8 SM TO 1-3/8 SM - LNAV/VNAV HAT DECREASED FROM 482 TO 479, APPLIED 8260.3D TABLES 3-3-6 AND 3-3-1.
18. LNAV HAT ALL CATS CHANGED FROM 430 TO 427 - TDZE CHANGED FROM 650 TO 653.
19. CIRCLING HAA CHANGED CAT A FROM 530 TO 527, CAT B FROM 710 TO 707, CAT C/D FROM 730 TO 727 - AIRPORT ELEVATION CHANGED FROM 650 TO 653.
20. CRC REMAINDER CODE CHANGED FROM 8B501974 TO 621F6F28 - UPDATED RUNWAY SURVEY, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.
21. LTP/FTP LATITUDE/LONGITUDE CHANGED FROM 372001.8315N/0880659.9515W TO 371959.4435N/0880706.7650W - UPDATED RUNWAY SURVEY, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.
22. LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01687 TO +01697 - UPDATED RUNWAY SURVEY, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.
23. FPAP LATITUDE/LONGITUDE CHANGED FROM 372037.6900N/0880517.6500W TO 372035.2960N/0880524.4585W - UPDATED RUNWAY SURVEY, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.
24. LTP ORTHOMETRIC HEIGHT/FPAP ORTHOMETRIC HEIGHT CHANGED FROM +01980 TO +01989 - UPDATED RUNWAY SURVEY, RW07 EXTENDED 600.95 FT PER UPDATED AIRPORT DATA.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, ZME, AMGR, EST FPT

FLIGHT CHECKED BY

Pending

Digitally signed by

DAVID TEFFETELLER

Mar 24, 2022

OFFICE

DATE

DEVELOPED BY

RAFAEL A MARTINEZ

Digitally signed by

RAFAEL A MARTINEZ

Mar 18, 2022

OFFICE

AJV-A433

DATE

01/04/2022

APPROVED BY

LONNIE EVERHART

Digitally signed by

DAVID TEFFETELLER

Mar 24, 2022

OFFICE

AJV-A430

DATE

**TITLE
MANAGER**

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGDA
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	371959.4435N
LTP/FTP LONGITUDE	0880706.7650W
LTP/FTP ELLIPSOIDAL HEIGHT	+01697
FPAP LATITUDE	372035.2960N
FPAP LONGITUDE	0880524.4585W
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	621F6F28

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01989
FPAP ORTHOMETRIC HEIGHT	+01989

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KGDA	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 7	<u>AMDT NO.</u> 3	<u>CITY</u> MARION	<u>STATE</u> KY	<u>AIRPORT ELEVATION</u> 653	<u>FACILITY</u> RNAV
---------------------------	---	----------------------	-----------------------	--------------------	---------------------------------	-------------------------

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM
338/30 CW 158/30

TO
FEVOD

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
												TOWER (21-000045)	371131.20N/0885853.24W	1989	250	50	4D	1000				AT511	3500
												TERRAIN	373215.00N/0883406.00W	833 (800)								AS1500	2300

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM
158/30 CW 248/30

TO
ZETOB

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
												TOWER (17-000365)	373454.49N/0882833.62W	1334	20	3	1A	1000				AT1166	3500
												TERRAIN	373454.00N/0882836.00W	1056 (1100)								AS1500	2600

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



RIGHT BASE AREA

FROM
248/30 CW 338/30

TO
HEVPU

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (21-000549)	365701.00N/0874022.00W		1614	500	50	5D	1000				AT886	3500
TERRAIN	371845.00N/0880448.00W		816 (800)								AS1500	2300

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

INITIAL

FROM
ZETOB

TO
FEVOD

<u>RNP</u>	<u>DISTANCE</u> 10.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
6.TOWER (21-002014)	371455.00N/0882042.00W		934	50	20	2C	1000				AT1566	3500
TERRAIN	371733.00N/0882033.00W		685 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



INITIAL

FROM

HEVPU

TO

FEVOD

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	10.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TOWER (21-020085)	371415.74N/0881741.26W		1134	20	3	1A	1000				AT1366	3500
TERRAIN	371406.00N/0882015.00W		669 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

FEVOD (IF/IAF)

TO

ELOCU

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	6.81											
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.TOWER (21-020085)	371415.74N/0881741.26W		1134	20	3	1A	500				AT966	2600
TERRAIN	371415.00N/0881742.00W		734 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM
ELOCU

TO
RW07

<u>RNP</u>	<u>DISTANCE</u> 5.99	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 250			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (21-078665)	371948.74N/0880725.89W		732	20	3	1A		34:1				903

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM
ELOCU

TO
RW07

<u>RNP</u>	<u>DISTANCE</u> 5.99	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 479			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (21-078535)	372001.40N/0880826.22W		785	20	3	1A		23.44:1				1132

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



FINAL: LNAV

FROM
ELOCU

TO
IDASE/1.78 NM TO RW07

<u>RNP</u>	<u>DISTANCE</u> 4.21	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	371757.00N/0881215.00W		860	50	20	2C	250				RA80 XP70	1260

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:
XP70 - ADDED TO MAINTAIN MINIMUMS.
FINAL: LNAV STEPDOWN

FROM
IDASE/1.78 NM TO RW07

TO
RW07

<u>RNP</u>	<u>DISTANCE</u> 1.78	<u>PAT</u>	<u>MAP</u> RW07	<u>HAT</u> 427			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (21-078535)	372001.40N/0880826.22W		785	20	3	1A	250				XP45	1080

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:
XP45 - ADDED TO MAINTAIN CURRENT MINIMUMS.



HOLD-IN-LIEU OF PT

FROM
FEVOD

TO
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
8.TOWER (21-020085)	371415.74N/0881741.26W		1134	20	3	1A	1000				AT1366	3500
TERRAIN	371415.00N/0881742.00W		734 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM
DA

TO
HAMIV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 716					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				3500
AAO	372341.89N/0875927.90W		910	50	20	2C	1000					2000
TERRAIN	372342.00N/0875924.00W		715 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM
DA

TO
HAMIV

RNP	DISTANCE	PAT	MAP	HAT			HMAS 971					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3500
AAO	372341.89N/0875927.90W		910	50	20	2C	1000					2000
TERRAIN	372342.00N/0875924.00W		715 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:

MISSED APPROACH : LNAV

FROM
RW07

TO
HAMIV

RNP	DISTANCE	PAT	MAP	HAT			HMAS 980					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3500
AAO	372341.89N/0875927.90W		910	50	20	2C	1000					2000
TERRAIN	372342.00N/0875924.00W		715 (700)								AS1500	2200

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
--------------	-----	------	------	-----	------	----	----	-----	---------------	------	---------	------------------------

SEGMENT REMARKS:



<div>AIRPORT ID KGDA</div>	<div>PROCEDURE NAME RNAV (GPS) RWY 7</div>	<div>AMDT NO. 3</div>	<div>CITY MARION</div>	<div>STATE KY</div>	<div>AIRPORT ELEVATION 653</div>	<div>FACILITY RNAV</div>
--------------------------------	--	---------------------------	----------------------------	-------------------------	--------------------------------------	------------------------------

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TREE (21-078336)	372042.52N/0880805.53W	1.30	527	843	20	10	1B	300		XP37	1180
CATEGORY B											
17.TOWER (21-001322)	371903.00N/0880432.00W	1.83	707	1053	20	3	1A	300			1360
CATEGORY C											
18.TOWER (21-001395)	371900.00N/0880434.00W	2.87	727	1076	20	3	1A	300			1380
CATEGORY D											
18.TOWER (21-001395)	371900.00N/0880434.00W	3.75	727	1076	20	3	1A	300			1380

CIRCLING REMARKS:

XP37 - ADDED TO MAINTAIN MINIMUMS.

CENTER

RADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
2
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 8 of 13

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZME ARTCC, LOU FSS, 5M9 CTAF

<u>WX SERVICE</u> AWOS-3P	<u>LOCATION</u> KGDA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGDA	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3	<u>LOCATION</u> KTWT	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KTWT	<u>DISTANCE</u> 14.43	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 73

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KGDA 652.7, KTWT 372.2
RA = 72.5.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW07 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	
RW25 - MIRL (PCL), REIL (PCL), PAPI-4L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 652.6	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.0
---------------------------------	------------------------------------	--------------------	------------------------	--------------------------	---------------------------	--------------------

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -16C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -16C	<u>APT ISA</u> +13.71C
-----------------------------	------------------------------	--------------------	---------------------------

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 964 HIGH TEMP 1271.



"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	LPV, LNAV/VNAV, LNAV		
20:1			
690 TREE (21-078520) 371953.57N/0880714.74W (5.97)		689 TREE (21-078649) 371954.15N/0880714.91W (5.52)	
688 TREE (21-078442) 371953.70N/0880714.77W (4.12)		685 TREE (21-078606) 371954.60N/0880715.03W (1.99)	
687 TREE (21-078376) 371958.21N/0880717.85W (0.91)			
Final Type	LPV, LNAV/VNAV, LNAV		
34:1			
732 TREE (21-078665) 371948.74N/0880725.89W (30.88)		713 TREE (21-024572) 371955.45N/0880724.12W (23.76)	
722 TREE (21-078492) 371949.93N/0880726.24W (21.55)		708 TREE (21-078420) 371955.80N/0880723.42W (20.7)	
712 TREE (21-078560) 371953.38N/0880725.10W (18.15)		718 TREE (21-078446) 371951.97N/0880727.15W (18.01)	
709 TREE (21-078648) 371954.14N/0880724.27W (17.87)		711 TREE (21-078417) 371954.58N/0880725.95W (16.74)	
705 TREE (21-078576) 371956.06N/0880724.13W (16.47)		705 TREE (21-024571) 371954.95N/0880723.69W (16.1)	
716 TREE (21-078585) 371950.61N/0880726.63W (15.51)		706 TREE (21-078515) 371955.03N/0880724.65W (15.1)	
703 TREE (21-078586) 371954.44N/0880723.35W (14.23)		714 TREE (21-078589) 371952.39N/0880727.34W (14.1)	
710 TREE (21-078318) 371954.01N/0880726.43W (14.01)		693 TREE (21-078507) 371956.38N/0880720.56W (12.61)	
694 TREE (21-078529) 371956.46N/0880721.15W (12.43)		701 TREE (21-078411) 371955.51N/0880725.16W (9.57)	
706 TREE (21-078551) 371954.19N/0880726.81W (9.4)		703 TREE (21-078548) 371954.08N/0880725.40W (9.34)	
705 TREE (21-078465) 371953.39N/0880726.04W (9.12)		691 TREE (21-078642) 371956.24N/0880721.39W (8.64)	
707 TREE (21-078583) 371952.77N/0880727.16W (7.94)		691 TREE (21-078518) 371955.62N/0880721.77W (7.07)	
691 TREE (21-078563) 371957.04N/0880722.82W (6.49)		679 TREE (21-078429) 371958.07N/0880718.07W (6.05)	
675 TREE (21-078577) 371955.05N/0880715.19W (4.7)		702 TREE (21-078582) 371954.15N/0880727.48W (3.9)	
690 TREE (21-078534) 371955.37N/0880722.80W (3.53)		706 TREE (21-078544) 371949.80N/0880727.33W (3.02)	
682 TREE (21-078377) 371956.77N/0880720.26W (2.73)		701 TREE (21-078562) 371953.66N/0880727.34W (2.61)	
680 TREE (21-078647) 371957.28N/0880719.84W (2.26)		708 TREE (21-078526) 371949.84N/0880728.66W (2.17)	
699 TREE (21-078447) 371954.60N/0880727.23W (1.98)		683 TREE (21-078329) 371956.20N/0880720.78W (1.92)	
687 TREE (21-078599) 371955.96N/0880722.63W (1.61)		699 TREE (21-078341) 371952.51N/0880726.36W (1.37)	
671 TREE (21-078524) 371957.24N/0880716.43W (0.63)		687 TREE (21-078608) 371954.69N/0880722.53W (0.31)	

QUALITY

QUALITY
2
CHECKED

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20: 1 SURFACE.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

3500 USED IN INITIALS AND TAA PER ATC REQUEST.

AVERAGE VEGETATION ASSUMED TO BE 100 FT PER FPT.

LNAV AND CIRCLING CAT A MINIMA HAVE AN ADJUSTMENT TO MAINTAIN CURRENT MINIMUMS.

BACKUP ALTIMETER NOTES FOR CONTINGENCY USE:
BARO-VNAV AND VDP NA WHEN USING STURGIS ALTIMETER SETTING.
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE STURGIS ALTIMETER SETTING AND INCREASE LPV DA TO 976 FEET; INCREASE LNAV/VNAV DA TO 1205 FEET AND ALL VISIBILITIES 1/4 SM.
INCREASE ALL MDAS 80 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT C/D 1/4 SM.

ORDER 8260.3 CHAPTER 2 APPLIED TO 790 TREE 372033.98N/0880322.86W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KGDA	PROCEDURE NAME RNAV (GPS) RWY 7	AMDT NO. 3	CITY MARION	STATE KY	AIRPORT ELEVATION 653	FACILITY RNAV
---------------------------	---	----------------------	-----------------------	--------------------	---------------------------------	-------------------------

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.16
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	066.23
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	700
DISTANCE FROM	THLD	TO 1500FT POINT	5.19
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	066.23
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	700

THRESHOLD
COORDINATES
(IF STR-IN)

371959.44N/0880706.77W

ARP COORDINATES

372009.38N/0880638.42W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 25 DISTANCE 0.41 NM

FAF
COORDINATES

371734.59N/0881359.12W

FIX NAME
COORDINATES

REMARKS

ZETOB: 372358.61N/0882652.02W
HEVPU: 370539.80N/0881644.08W
FEVOD: 371449.32N/0882147.44W

QUALITY
2
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 12 of 13

PART E: PREPARED BY

<u>NAME</u> RAFAEL A MARTINEZ	<u>OFFICE</u> AJV-A433	<u>DATE</u> 01/04/2022	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
----------------------------------	---------------------------	---------------------------	---

