

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</u> MOUNT CARMEL MUNI	<u>AIRPORT ID</u> KAJG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> MOUNT CARMEL	<u>STATE</u> IL	
<u>AIRPORT ELEVATION</u> 429	<u>TDZE</u> 429	<u>SUPERSEDED</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 04/08/2010	<u>MAG VAR</u> 2W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
LISLE	IAF	RUOFF	NOPT	TF	FB	1.00	210.08	20.88	2500
RUOFF	IF/IAF	HEGSI		TF	FB	1.00	222.86	6.10	2100
HEGSI	FAF	ZALRA/2.60 NM TO RW22		TF	FB	0.30	222.80	2.45	
ZALRA/2.60 NM TO RW22		RW22	MAP	TF	FO	0.30	222.80	2.60	
RW22	MAP	679 MSL		CA			222.80		
679 MSL		SURDY		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT SURDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD NE RUOFF, RT, 222.86 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 222.80FAF: HEGSI

DIST FAF TO MAP: 5.05

DIST FAF TO THLD: 5.05

4. MIN ALT: RUOFF 2500, HEGSI 2100, ZALRA/2.60 NM TO RW22 1300*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.65GS ANT:

6. MIN GP INCPT: 2100GP ALT AT FAF : HEGSI 2100OM:MM:IM:

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

8. MSA FROM: RW22 2500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LISLE ON V221 EASTBOUND AND V7 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.28 NM TO RW22*
*LNAV ONLY
WAAS CHANNEL #53317
REFERENCE PATH ID: W22A
CHART FAS OBST: 609 TREE 383821N/0874227W.
709 AAO 384024N/0873838W.
HOLD SW, RT, 042.65 INBOUND
LTP HAE: 99.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	679	1	250	679	1	250	679	1	250		NA				
LNAV/VNAV DA	888	1 3/4	459	888	1 3/4	459	888	1 3/4	459		NA				
LNAV MDA	860	1	431	860	1	431	860	1 1/4	431		NA				
CIRCLING	980	1	551	980	1	551	980	1 1/2	551		NA				



CHANGES - REASONS

- 1. TERMINAL ROUTES: INTERMEDIATE SURDY TO POLNE RNP UPDATED FROM 0.50 TO 1.00. - IAW 8260.19H PARA 4-6-10 F.
- 2. TERMINAL ROUTES: MISSED APPROACH CA LEG COURSE ADDED. - IAW 8260.19H.
- 3. LINE 2: HOLD-IN-LIEU MAX ALTITUDE 6000 ADDED. - IAW 8260.19H PARA 8-6-7 B(2).
- 4. LINE 5: DISTANCE TO THLD FROM 250 HAT: 0.66 NM UPDATED TO 0.65 NM. - VERIFIED WITH TARGETS BUILD.
- 5. LINE 7: 20:1 IS CLEAR ADDED. - NO 20:1 PENETRATIONS PRESENT.
- 6. CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 22 PROCEDURE NA AT NIGHT REMOVED. - NO 20:1 PENETRATIONS EXIST.
- 7. CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 4 NA AT NIGHT REMOVED. - NO 20:1 PENETRATIONS EXIST ON RWY 4.
- 8. CHART NOTE: DME/DME RNP-0.3 NA REMOVED. PBN REQUIREMENTS NOTE: RNP APCH ADDED. - IAW 8260.19H.
- 9. CHART NOTE: BARO-VNAV NA WHEN USING LAWRENCEVILLE ALTIMETER SETTING REMOVED. - ALL REFERENCES TO SECONDARY ALTIMETER HAVE BEEN REMOVED.
- 10. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F) UPDATED TO -15C TO 54C. - FAHRENHEIT REMOVED IAW 8260.19H.
- 11. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT UPDATED TO VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - IAW 8260.19H 8-6-9 M (2).
- 12. CHART NOTE: ALTERNATE ALTIMETER NOTE REMOVED. - MOVED TO 8260-9 PART C REMARKS IAW 8260.19H 8-6-9 F(4).
- 13. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 579 TREE 383729N/0874304W REMOVED. - IAW 8260-19H 8-6-10 C.
- 14. ADDITIONAL FLIGHT DATA: CHART VDP AT 1.28 NM TO RW22* ADDED. - NO 20:1 PENETRATIONS PRESENT.
- 15. NA WHEN LOCAL WEATHER NOT AVAILABLE REMOVED. - ALL REFERENCES TO SECONDARY ALTIMETER HAVE BEEN REMOVED.
- 16. FAS DATA: LTP/FTP ELLIPSOIDAL HEIGHT UPDATED FROM +00991 TO +00992; LTP/FPAP ORTHOMETRIC HEIGHT UPDATED FROM +01305 TO +01306. - NEW AIRNAV DATA.
- 17. FAS DATA: CRC REMAINDER UPDATED FROM D23DAD69 TO 72D954CC. - UPDATED LTP/FTP ELLIPSOIDAL HEIGHT AND LTP/FPAP ORTHOMETRIC HEIGHT.
- 18. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LISLE VIA V221 EASTBOUND AND V7 NORTHBOUND UPDATED TO "... ON V221 EASTBOUND AND V7 NORTHBOUND." - VIA NO LONGER USED.
- 19. CHARTED CIRCLING ICON - NEW CIRCLING APPLIED IAW 8260.3D PARA 2-7-1

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID ARTCC, EVV APP CON, IL DOT, AIRPORT MGR

FLIGHT CHECKED BY

OFFICE

DATE

DEVELOPED BY

WARDELL HENNING (BARBARA GORMAN)

OFFICE

AJV-A432

DATE

02/27/2019

APPROVED BY

PATRICK MULQUEEN

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	KAJG
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	383637.2480N
LTP/FTP LONGITUDE	0874314.7465W
LTP/FTP ELLIPSOIDAL HEIGHT	+00992
FPAP LATITUDE	383529.6900N
FPAP LONGITUDE	0874428.9500W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	72D954CC
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01306
FPAP ORTHOMETRIC HEIGHT	+01306



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

<u>AIRPORT</u> MOUNT CARMEL MUNI	<u>AIRPORT ID</u> KAJG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> MOUNT CARMEL	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 429	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
LISLE

TO
RUOFF

<u>RNP</u>	<u>DISTANCE</u> 20.88	<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>
1.TOWER (18-001207)	390043.00N/0872223.00W		999	500	50	5D	1000				AT501	2500
2.TERRAIN	390148.00N/0871742.00W		610 (600)								AS1500	2100

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
RUOFF (IF/IAF)

TO
HEGSI

<u>RNP</u>	<u>DISTANCE</u> 6.10	<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>
3.TOWER (17-000202)	384323.00N/0873913.00W	792	250	50	4D	500				AT808	2100
4.TERRAIN	384327.00N/0873900.00W	485 (500)								AS1500	2000

COMPUTATIONS

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

SEGMENT REMARKS:



TO
RW22

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

TO
RW22

HMAS

COMPUTATIONS

RF CENTER FIX/DISTANCE**SEGMENT REMARKS:**

FINAL: LNAV

FROM
HEGSI

TO
ZALRA/2.60 NM TO RW22

<u>RNP</u>	<u>DISTANCE</u> 2.45	<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>
7.AAO	384025.15N/0874040.21W		692	50	3	2A	250				RA26 SA-214 DG546	1300

COMPUTATIONS

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

FINAL: LNAV STEPDOWN

FROM
ZALRA/2.60 NM TO RW22

TO
RW22

<u>RNP</u>	<u>DISTANCE</u> 2.60	<u>PAT</u>	<u>MAP</u> RW22	<u>HAT</u> 431			<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>
8.TREE	383821.00N/0874227.00W		609	50	20	2C	250					860

COMPUTATIONS

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



HOLD-IN-LIEU OF PT

FROM

RUOFF

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-5	<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>
9.TOWER (18-002140)	385004.00N/0872609.00W	809	500	50	5D	1000				AT691	2500
10.TERRAIN	385115.00N/0873624.00W	591 (600)								AS1500	2100

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

MISSED APPROACH : LPV

FROM

DA

TO

SURDY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
491											
<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				2500
11.TOWER (17-000189)	383346.00N/0874924.00W	820	20	50	1D	1000					1900
12.TERRAIN	383049.60N/0875044.10W	595 (600)								AS1500	2100

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



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

SURDY

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							738				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
11.TOWER (17-000189)	383346.00N/0874924.00W	820	20	50	1D	1000					1900
12.TERRAIN	383049.60N/0875044.10W	595 (600)								AS1500	2100

COMPUTATIONS

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

MISSED APPROACH : LNAV

FROM

RW22

TO

SURDY

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							760				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2500
11.TOWER (17-000189)	383346.00N/0874924.00W	820	20	50	1D	1000					1900
12.TERRAIN	383049.60N/0875044.10W	595 (600)								AS1500	2100

COMPUTATIONS

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



9

CIRCLING REMARKS:

RADIUS
25

MSA REMARKS:

100 FT VEGETATION HEIGHT PER FPT



QUALITY
24
CHECKER

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> MOUNT CARMEL MUNI	<u>AIRPORT ID</u> KAJG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> MOUNT CARMEL	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 429	<u>FACILITY</u> RNAV
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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	3.27
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.71
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	220.80
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	509
DISTANCE FROM	THLD	TO 1500FT POINT	4.85
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.00
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	220.80
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	509

THRESHOLD
COORDINATES
(IF STR-IN)

383637.25N/0874314.75W

ARP COORDINATES

383623.50N/0874336.10W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 13 DISTANCE 0.43 NM

FAF
COORDINATES

384027.04N/0873902.00W

FIX NAME
COORDINATES

REMARKS

QUALITY
24
CHECKED

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<u>AIRPORT</u> MOUNT CARMEL MUNI	<u>AIRPORT ID</u> KAJG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>AMDT NO.</u> ORIG-A	<u>CITY</u> MOUNT CARMEL	<u>STATE</u> IL	<u>AIRPORT ELEVATION</u> 429	<u>FACILITY</u> RNAV
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PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 02/27/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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QUALITY
24
CHECKED

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