

**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> KMDH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 18L	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> CARBONDALE/MURPHYSBORO	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 411	<u>TDZE</u> 407	<u>SUPERSEDED</u> RNAV (GPS) RWY 18L	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 04/08/2010	<u>MAG VAR</u> 1W	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 22 APRIL 2021	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 092/30 CW 272/30	NOPT	HEMPA	IF/IAF	2700
2. 272/30 CW 002/30		FOGBO	IAF	2700
3. 002/30 CW 092/30		ELUME	IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ELUME	IAF	HEMPA	NOPT	TF	FB	1.00	092.15	5.00	2700
FOGBO	IAF	HEMPA	NOPT	TF	FB	1.00	272.28	5.00	2700
HEMPA	IF/IAF	JOROB		TF	FB	1.00	182.22	6.02	2100
JOROB	FAF	RW18L	MAP	TF	FO	0.30	182.22	5.08	
RW18L	MAP	800 MSL		CA			182.22		
800 MSL		SOPAW		DF	FO	1.00			2700

MISSED APPROACH

MAP:

LNAV/VNAV: DA
 LNAV: RW18L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT SOPAW AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
2. HOLD N HEMPA, RT, 182.22 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.
3. **FAC:** 182.22 **FAF:** JOROB **DIST FAF TO MAP:** 5.08 **DIST FAF TO THLD:** 5.08
4. **MIN ALT:** HEMPA 2700, JOROB 2100
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **397 HAT:** 1.07 **GS ANT:**
6. **MIN GP INCPT:** 2100 **GP ALT AT FAF:** JOROB 2100 **OM:** **MM:** **IM:**
7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 54.7
8. **MSA FROM:**

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 6, 36L NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 002.22 INBOUND.
CHART FAS OBST: 550 TREE 374944N/0891430W.
CHART VDP AT 1.05 NM TO RW18L*
*LNAV ONLY.

MINIMUMS:

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

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

CATEGORY:	A			B			C			D			E		
	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
LNAV/VNAV DA	804	5/8	397	804	5/8	397	804	5/8	397	804	5/8	397			
LNAV MDA	800	1/2	393	800	1/2	393	800	5/8	393	800	5/8	393			
CIRCLING	900	1	489	920	1	509	1180	2 1/4	769	1180	2 1/2	769			



CHANGES - REASONS

1. RAISED LNAV/VNAV DA/HAT ALL CATS FROM 726/319 TO 804/397, LNAV MDA/HAT ALL CATS FROM 740/333 TO 800/393 - NEW OBSTACLE EVALUATION.
2. RAISED LNAV/VNAV CATS A/B/C VISIBILITY FROM 1/2 SM TO 5/8 SM, LOWERED CAT D FROM 3/4 SM TO 5/8 SM, RAISED LNAV VISIBILITY CAT C FROM 1/2 SM TO 5/8 SM, LOWERED CAT D FROM 1 SM TO 5/8 SM - NEW OBSTACLE EVALUATION WITH UPDATED VIS CHECK PER 8260.3D TABLE 3-3-1.
3. RAISED CIRCLING CAT B MDA/HAA FROM 900/489 TO 920/509, CAT C MDA/HAA FROM 900/489 TO 1180/769, CAT D MDA/HAA FROM 980/569 TO 1180/769 - NEW CIRCLING CRITERIA ADDED WITH NEW OBSTACLE EVALUATION.
4. RAISED CIRCLING CAT C VISIBILITY FROM 1 1/2 TO 2 1/4, CAT D VISIBILITY FROM 2 TO 2 1/2 - NEW CIRCLING CRITERIA ADDED WITH UPDATED OBSTACLE EVALUATION AND VIS CHECK PER 8260.3D TABLE 3-3-7.
5. CHANGED ALTERNATE MINIMA FROM STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE TO STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, NA WHEN LOCAL WEATHER NOT AVAILABLE - CAT C/D VISIBILITIES HIGHER THAN STANDARD 800-2 IAW 8260.3D TABLE 3-4-1.
6. CHANGED CHART FAS OBST FROM 477 TREE 374701N/0891505W TO 550 TREE 374944N/0891430W - NEW OBSTACLE EVALUATION.
7. ADDED CHART NOTE: CIRCLING RWY 6, 36L NA AT NIGHT - 20:1 VISUAL PENETRATIONS EXIST IN OBSTACLE EVALUATION FOR RWY 6 AND 36L.
8. CHANGED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 0.88 TO RW18L TO CHART VDP AT 1.05 TO RW18L - LNAV MDA RAISED FROM 740 TO 800.
9. REMOVED BACK UP ALTIMETER NOTES AND MOVED TO BACK OF -9 AS CONTINGENCY NOTES - IAW 8260.19H 8-6-9F(3).
10. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H, 8-6-8B(1).
11. REMOVED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT D - UPDATED VIS CHECK PER 8260.3D TABLE 3-3-1.
12. UPDATED CHART NOTE: FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C (5°F) OR ABOVE 48°C (118°F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C - (F) VALUES NO LONGER DOCUMENTED IAW 8260.19H PARA 8-6-9S.
13. ADDED 20:1 IS CLEAR TO LINE 7 - NEW 8260-3 FORM/20:1 PENETRATIONS DID NOT EXIST PREVIOUSLY.
14. REMOVED ADDITIONAL FLIGHT DATA NOTE DISTANCE TO THLD FROM 319 HAT: 0.84NM AND ADDED DISTANCE TO THLD FROM 397 HAT: 1.07 NM TO PROFILE LINE 5 - NEW CONTROLLING OBSTACLE RAISED DA/HAT FROM 726/319 TO 804/397 AND NEW -3 FORM.

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA** **OTHER:** ZKC, AMGR, MDH ATCT

FLIGHT CHECKED BY

PATRICK MURRAY

OFFICE	<i>Digitally signed by</i>	DATE
FICO	WARDELL HENNING	02/06/2021

DEVELOPED BY

WARDELL HENNING (RICHARD CHRISTENSEN)

<i>Digitally signed by</i>	OFFICE	DATE
WARDELL HENNING	AJV-A432	04/30/2020
Nov 03, 2020		

APPROVED BY

GEORGE DAVIS

Digitally signed by
WARDELL HENNING
Nov 03, 2020

OFFICE	DATE
AJV-A430	

TITLE
MANAGER

