

**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 36R	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>CITY</u> CARBONDALE/MURPHYSBORO	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 411	<u>TDZE</u> 406	<u>SUPERSEDED</u> RNAV (GPS) RWY 36R	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 02/11/2010	<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. 272/30 CW 092/30	NOPT	272/10 CW 092/10		3500
2. 272/10 CW 092/10		SOPAW	IF/IAF	2700
3. 092/30 CW 182/30		JESHE	IAF	2700
4. 182/30 CW 272/30		HENAN	IAF	2700

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JESHE	IAF	SOPAW	NOPT	TF	FB	1.00	092.16	5.00	2700
HENAN	IAF	SOPAW	NOPT	TF	FB	1.00	272.28	5.00	2700
SOPAW	IF/IAF	RYMAN		TF	FB	1.00	002.22	6.01	2100
RYMAN	FAF	ZAGDA/2.40 NM TO RW36R		TF	FB	0.30	002.22	2.69	
ZAGDA/2.40 NM TO RW36R		RW36R	MAP	TF	FO	0.30	002.22	2.40	
RW36R	MAP	811 MSL		CA			002.22		
811 MSL		HEMPA		DF	FO	1.00			2700



MISSED APPROACH

MAP:
LNAV: RW36R

MISSED APPROACH INSTRUCTIONS:
CLIMB TO 2700 DIRECT HEMPA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)
2. HOLD S SOPAW, LT, 002.22 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.
3. FAF: 002.22FAF: RYMANDIST FAF TO MAP: 5.09DIST FAF TO THLD: 5.09
4. MIN ALT: SOPAW 2700, RYMAN 2100, ZAGDA/2.40 NM TO RW36R 1200
5. DIST TO THLD FROM OM:MM:IM:150 HAT:GS ANT:MM:IM:
6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:
7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS CLEARTCH:
8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 6, 36L NA AT NIGHT.
CHART NOTE: RWY 36R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 182.22 INBOUND.
CHART FAS OBST: 593 TOWER 374355N/0891432W.
CHART VDP AT 1.31 NM TO RW36R.
RYMAN TO RW36R: 3.05/55.

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		
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
LNAV MDA	860	1	454	860	1	454	860	1 3/8	454	860	1 3/8	454			
CIRCLING	900	1	489	920	1	509	1180	2 1/4	769	1180	2 1/2	769			

CHANGES - REASONS

1. RAISED LNAV MDA/HAT ALL CATS FROM 760/353 TO 860/454 - NEW OBSTACLE EVALUATION.
2. RAISED LNAV VISIBILITY CAT C FROM 1 TO 1 3/8, CAT D FROM 1 1/4 TO 1 3/8 - NEW OBSTACLE EVALUATION WITH UPDATED VIS CHECK PER 8260.3D TABLE 3-3-7.
3. RAISED CIRCLING CAT B MDA/HAA FROM 900/489 TO 920/509, CIRCLING 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. TDZE CHANGED FROM 407 TO 406 - UPDATED AIRNAV DATA.
6. CHANGED CHART NOTE: FROM VISIBILITY REDUCTION BY HELICOPTERS NA TO RWY 36R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED TO ADDITIONAL FLIGHT DATA - NO 20:1 PENETRATIONS, 34:1 PENETRATIONS DO EXIST IN EVALUATION/IAW 8260.19H PARA 3-6-11K(3).
7. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H, 8-6-8B(1).
8. CHANGED CHART PROFILE NOTE: FROM VGSI AND DESCENT ANGLES NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - IAW 8260.19H PARA 8-6-9M(2).
9. REMOVED BACK UP ALTIMETER NOTES AND MOVED TO BACK OF -9 AS CONTINGENCY NOTES - IAW 8260.19H 8-6-9F(3).
10. CHANGED VDA FROM RYMAN TO RW36R: 3.04/55 TO RYMAN TO RW36R: 3.05/55 - NEW PROCEDURE EVALUATION.
11. CHANGED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 0.68 TO RW36R TO CHART VDP AT 1.31 TO RW36R - LNAV MDA RAISED FROM 760 TO 860.
12. REMOVED CHART: 988 TOWER 374141N/0891559W AND CHART: 588 TOWER 374355N/0891432W FROM ADDITIONAL FLIGHT DATA - NEW OBSTACLE EVALUATION.
13. CHANGED CHART FAS OBST FROM 497 TREE 374543N/0891504W TO 593 TOWER 374355N/0891432W - NEW OBSTACLE EVALUATION.
14. 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.
15. ADDED CHART NOTE: CIRCLING RWY 6, 36L NA AT NIGHT - 20:1 VISUAL PENETRATIONS EXIST IN OBSTACLE EVALUATION FOR RWY 6 AND 36L.
16. ADDED 20:1 IS CLEAR TO LINE 7 - NEW 8260-3 FORM/20:1 PENETRATIONS DID NOT EXIST PREVIOUSLY.

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	04/29/2020
Nov 03, 2020		

APPROVED BY

GEORGE DAVIS

Digitally signed by
WARDELL HENNING
Nov 03, 2020

OFFICE	DATE	TITLE
AJV-A430		MANAGER