

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> GENERAL MITCHELL INTL	<u>AIRPORT ID</u> KMKE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MILWAUKEE	<u>STATE</u> WI
<u>AIRPORT ELEVATION</u> 729	<u>TDZE</u> 671	<u>SUPERSEDED</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 4W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 13 SEPTEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> 9/13/2018	<u>CANCEL SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
BAE VOR/DME	IAF	CEXIS		TF	FB	1.00	110.91	9.86	2700
ZAMIN	IAF	CEXIS		TF	FB	1.00	226.22	7.73	2700
CEXIS	IF	GUGGE		TF	FB	1.00	136.14	5.06	2300
GUGGE	FAF	FIKUP/2.00 NM TO RW13		TF	FB	0.30	136.19	2.95	
FIKUP/2.00 NM TO RW13		RW13	MAP	TF	FO	0.30	136.19	2.00	
RW13	MAP	971 MSL		CA			136.19		
971 MSL		DUSAY		DF	FO	1.00			2900

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW13

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2900 DIRECT DUSAY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT CEXIS
3. FAC: 136.19

FAF: GUGGE

DIST FAF TO MAP: 4.95

DIST FAF TO THLD: 4.95
4. MIN ALT: CEXIS 2700, GUGGE 2300, FIKUP/2.00 NM TO RW13 1360*
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

300 HAT: 0.78
6. MIN GP INCPT: 2300

GP ALT AT FAF : GUGGE 2300

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 54.0
8. MSA FROM: RW13 2900

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BAE VOR/DME AIRWAY RADIALS 085 CW 191.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.30 NM TO RW13*
*LNAV ONLY
WAAS CHANNEL #99342
REFERENCE PATH ID: W13A
CHART FAS OBST: 887 CTRL TWR 425652N/0875423W.
HOLD SE, RT, 316.37 INBOUND
LTP HAE: 169.2 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	971	7/8	300	971	7/8	300	971	7/8	300	971	7/8	300			
LNAV/VNAV DA	1189	1 3/8	518	1189	1 3/8	518	1189	1 3/8	518	1189	1 3/8	518			
LNAV MDA	1140	1	469	1140	1	469	1140	1 3/8	469	1140	1 3/8	469			
CIRCLING	1240	1	511	1240	1	511	1240	1 1/2	511	1360	2	631			



CHANGES - REASONS

1. UPDATED HELICOPTER VISIBILITY NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" TO "RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW 8260.19H PARA 8-6-11.K.(3).
2. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10.T. & UPDATE TO NEW CIRCLING CRITERIA.
3. RAISED CIRCLING CAT D MDA/HAA FROM 1280/551 TO 1360/631 - IAW 8260.19H PARA 8-6-10.T. & UPDATE TO NEW CIRCLING CRITERIA.
4. UPDATED FAS OBST FROM "FAS OBST: 885 TANK 425819N/0875512W" TO "CHART FAS OBST: 887 CTRL TWR 425652N/0875423W" IN ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE.
5. ADDED DIST FAF TO MAP 4.95 - IAW 8260.19H PARA 8-6-7.C.(3).
6. ADDED "RNP APCH" TO PBN EQUIPMENT REQUIREMENTS NOTES AND DELETED "DME/DME RNP-0.3 NA" FROM NOTES - IAW 8260.19H PARA 8-6-8.B.(1) AND IMPLEMENTATION OF FAA ORDER 8260.19H FLIGHT PROCEDURES AND AIRSPACE MEMO, DATED 9/12/2017 PARA. F.
7. ADDED "20:1 IS CLEAR" TO LINE 7 - 8260.19H PARA 8-6-7.G.(3)
8. CHANGED FIX NAME FROM IRITE TO ZAMIN - MOVED FIX GREATER THAN 1NM. IAW JO 7400.2L 3-3-4.F.
9. UPDATED ZAMIN TO CEXIS COURSE/DISTANCE FROM 221.02/4.26 TO 226.22/7.73 - MOVED ZAMIN (FORMERLY IRITE) NE 3.51NM TO MEET TURN REQUIREMENTS.
10. UPDATED CEXIS TO GUGGE DISTANCE FROM 5.01 TO 5.06 - MOVED GUGGE SE 313 FT FOR OPTIMUM DESCENT.
11. UPDATED ALL REFERENCES OF FIKUP FROM "FIKUP/1.70 NM TO RW13" TO "FIKUP/2.00 NM TO RW13" - MOVED FIKUP SE 1822 FT FOR OPTIMUM DESCENT AND MOVED FIX TO A 0.10 NM INCREMENT IAW 8260.54A 3.5.1A.
12. UPDATED GUGGE TO FIKUP DISTANCE FROM 3.30 TO 2.95 - MOVED FIKUP.
13. UPDATED FIKUP TO RW13 DISTANCE FROM 1.70 TO 2.00 - MOVED FIKUP
14. UPDATED THE CA ALTITUDE FROM 1129 MSL TO 971 MSL - ADDED LPV MINIMUMS, IAW 8260.58A 3-5-2.A.
15. ADDED LPV AND LNAV/VNAV MINIMUMS AND ALL ASSOCIATED NOTES - ATC REQUEST/FPT CHECKLIST.
16. ADDED "CHART VDP AT 1.30 NM TO RW13*" TO ADDITIONAL FLIGHT DATA - 20:1 SURFACE IS CLEAR.
17. DELETED "CHART 975 TOWER 425920N/0875904W" FROM ADDITIONAL FLIGHT DATA - NEW SURVEY DATA.
18. UPDATED DIST FAF TO THLD FROM 5.00 TO 4.95 - MOVED GUGGE.
19. RAISED LNAV CAT D VIS FROM 1 1/4 TO 1 3/8 AND LOWERED CAT D VIS FROM 1 1/2 TO 1 3/8 - IAW 8260.3C TABLE 3-3-1.
20. DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT IRITE ON V31 EASTBOUND" - MOVED IAF OFF OF THE AIRWAY.
21. DELETED "CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES" FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED DUE TO ADDITION OF LPV AND LNAV/VNAV LINES OF MINIMA.

6/22/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 3/20/2018:
CHANGED REQUIRED EFFECTIVE DATE FROM ROUTINE TO 9/13/2018.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZAU, MKE APP CON, MKE ATCT, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
DONALD H LANIER

Jun 25, 2018

OFFICE

DATE

DEVELOPED BY

DONALD H. LANIER (JACOB MAXFIELD)

Digitally signed by
DONALD H LANIER

Jun 25, 2018

OFFICE

AJV-5431

DATE

03/20/2018

APPROVED BY

PATRICK MULQUEEN

Digitally signed by
DONALD H LANIER

Jun 25, 2018

OFFICE

AJV-5430

DATE

TITLE

MANAGER



