

**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.

<b><u>AIRPORT</u></b> GENERAL MITCHELL INTL	<b><u>AIRPORT ID</u></b> KMKE	<b><u>PROCEDURE NAME</u></b> RNAV (GPS) RWY 31	<b><u>ORIGINAL/AMENDMENT</u></b> 1	<b><u>CITY</u></b> MILWAUKEE	<b><u>STATE</u></b> WI
<b><u>AIRPORT ELEVATION</u></b> 729	<b><u>TDZE</u></b> 670	<b><u>SUPERSEDED</u></b> RNAV (GPS) RWY 31	<b><u>ORIGINAL/AMENDMENT</u></b> ORIG-A	<b><u>DATED</u></b> 03/31/2016	<b><u>MAG VAR</u></b> 4W
<b><u>FACILITY</u></b> RNAV	<b><u>COORDINATES OF FACILITIES</u></b>	<b><u>ACTUAL EFFECTIVE DATE</u></b> 13 SEPTEMBER 2018	<b><u>REQUIRED EFFECTIVE DATE</u></b> 9/13/2018	<b><u>CANCEL SUSPEND</u></b>	<b><u>EPOCH YEAR</u></b> 2020

**TERMINAL ROUTES**

<b><u>FROM</u></b>	<b><u>FIX TYPE</u></b>	<b><u>TO</u></b>	<b><u>FIX TYPE</u></b>	<b><u>LEG TYPE</u></b>	<b><u>FO/FB</u></b>	<b><u>RNP</u></b>	<b><u>COURSE</u></b>	<b><u>DISTANCE</u></b>	<b><u>ALTITUDE</u></b>
ZOLBO	IAF	DUSAY		TF	FB	1.00	046.28	7.73	2900
JUVAD	IAF	DUSAY		TF	FB	1.00	226.44	7.73	2900
DUSAY	IF	GERLE		TF	FB	1.00	316.36	5.15	2300
GERLE	FAF	RW31	MAP	TF	FO	0.30	316.31	4.95	
RW31	MAP	948 MSL		CA			316.31		
948 MSL		CEXIS		DF	FO	1.00			2900

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW31

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2900 DIRECT CEXIS AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)
2. PROFILE STARTS AT DUSAY
3. FAC: 316.31

FAF: GERLE

DIST FAF TO MAP: 4.95

DIST FAF TO THLD: 4.95
4. MIN ALT: DUSAY 2900, GERLE 2300
5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

278 HAT: 0.70
6. MIN GP INCPT: 2300

GP ALT AT FAF : GERLE 2300

OM:

MM:

IM:
7. GP ANGLE: 3.00

34:1: IS NOT CLEAR

20:1: IS CLEAR

TCH: 55.0
8. MSA FROM: RW31 2900

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 1.12 NM TO RW31\*  
\*LNAV ONLY  
WAAS CHANNEL #48842  
REFERENCE PATH ID: W31A  
CHART FAS OBST: 814 ANTENNA 425624N/0875144W.  
CHART 1200 TOWER 425120N/0875041W.  
HOLD NW, RT, 136.14 INBOUND  
LTP HAE: 168.8 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	948	7/8	278	948	7/8	278	948	7/8	278	948	7/8	278			
LNAV/VNAV DA	1092	1 1/4	422	1092	1 1/4	422	1092	1 1/4	422	1092	1 1/4	422			
LNAV MDA	1080	1	410	1080	1	410	1080	1 1/8	410	1080	1 1/8	410			
CIRCLING	1240	1	511	1240	1	511	1240	1 1/2	511	1360	2	631			



**CHANGES - REASONS**

1. INCORPORATED CHARTED CHANGES FROM PNOTAM ACTIONS FROM FDC 5/4934 - IAW 8260.19H PARA 8-3-4.C.(3).
2. 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).
3. ADDED CHART CIRCLING ICON TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10.T. & UPDATE TO NEW CIRCLING CRITERIA.
4. RAISED CIRCLING CAT D MDA/HAA FROM 1280/557 TO 1360/631 - IAW 8260.19H PARA 8-6-10.T. & UPDATE TO NEW CIRCLING CRITERIA.
5. UPDATED MAGVAR FROM 2 WEST TO 4 WEST. ALL COURSES UPDATED BY 2 DEGREES - AIRPORT MAGVAR CHANGE.
6. DELETED "FINAL SEGMENT (TF)" FROM ADDITIONAL FLIGHT DATA - NOTE NOT REQUIRED.
7. ADDED RNP VALUES TO TERMINAL ROUTES - IAW 8260.19H PARA 8-6-4.A(6).
8. UPDATED HOLDING FROM "CLIMB TO 2900 DIRECT CEXIS" WP AND HOLD" TO "CLIMB TO 2900 DIRECT CEXIS AND HOLD" - IAW 8260.19H 8-2-6.D "FOR RNAV PROCEDURES DESCRIBE A FIX BY NAME ONLY."
9. ADDED GERLE (FAF) TO RW31 (MAP) (TF) (FO) (RNP 0.30) TO TERMINAL ROUTES - IAW 8260.19H PARA 8-6-2 "...DOCUMENT ALL SEGMENTS OF THE PROCEDURE, INCLUDING THE FINAL AND MISSED APPROACH SEGMENTS."
10. UPDATED FAS OBST FROM "FAS OBST: 930 STACK 425549/875138 TO "CHART FAS OBST: 814 ANTENNA 425624N/0875144W" IN ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE.
11. ADDED DIST FAF TO MAP 4.95 - IAW 8260.19H PARA 8-6-7.C.(3).
12. 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.
13. ADDED "20:1 IS CLEAR" TO LINE 7 - 8260.19H PARA 8-6-7.G.(3)
14. DELETED WIPED TO DEYAP FEEDER FROM TERMINAL ROUTES - ATC REQUEST/FPT CHECKLIST.
15. CHANGED FIX NAMES OF DEYAP TO ZOLBO AND HOGMI TO JUVAD - MOVED FIX GREATER THAN 1NM. IAW JO 7400.2L 3-3-4.F.
16. UPDATED ZOLBO TO DUSAY COURSE/DISTANCE FROM 044.25/5.00 TO 046.28/7.73 - MOVED ZOLBO SW 2.73 NM TO MEET TURN REQUIREMENTS AND UPDATED MAGVAR.
17. UPDATED JUVAD TO DUSAY COURSE/DISTANCE FROM 224.45/4.64 TO 226.44/7.73 - MOVED JUVAD NE 3.09 NM TO MEET TURN REQUIREMENTS AND UPDATED MAGVAR.
18. UPDATED DUSAY TO GERLE COURSE/DISTANCE FROM 314.37/5.10 TO 316.36/5.15 - MOVED GERLE FIX WSW 307 FT TO ALIGN THE PROCEDURE VDA/TCH WITH THE VGSI AND UPDATED MAGVAR.
19. UPDATED THE CA ALTITUDE FROM 1140 MSL TO 948 MSL - ADDED LPV MINIMUMS, IAW 8260.58A 3-5-2.A.
20. ADDED "LPV: DA" AND "LNAV/VNAV: DA" TO MISSED APPROACH SECTION - ADDED LPV AND LNAV/VNAV LINES OF MINIMA.
21. UPDATED VDP NOTE IN FROM "CHART VDP AT 1.31 NM TO RW31" TO "CHART VDP AT 1.12 NM RW31" AND ADDED "\*\*LNAV ONLY" TO ADDITIONAL FLIGHT DATA - LOWER MDA.
22. ADDED "\*\*LNAV ONLY" TO ADDITIONAL FLIGHT DATA - ADDED LPV AND LNAV/VNAV LINES OF MINIMA. IAW 8260.19H 8-6-10.N.(3).
23. DELETED "GERLE WP TO RW31: 2.97/55" FROM ADDITIONAL FLIGHT DATA - ADDED VERTICALLY GUIDED PROCEDURES. IAW 8260.19H 8-6-10.P.(1).
24. ADDED 7:1 OBSTACLE "CHART 1200 TOWER 425120N/0875041W" TO ADDITIONAL FLIGHT DATA - 8260.19H 8-6-10.E.(2)
25. ADDED "WAAS CHANNEL #48842", "REFERENCE PATH ID:W31A", AND "LTP HAE: 168.8 M" TO ADDITIONAL FLIGHT DATA AND ADDED FAS DATA BLOCK- ADDED LPV MINIMUMS. IAW 8260.19H 8-6-10.J.(2). AND 8260.19H APPENDIX K.
26. UPDATED DIST FROM THLD FROM 5.00 TO 4.95 - MOVED FAF.
27. ADDED "278 HAT: 0.70" TO LINE 5 - ADDED VERTICALLY GUIDED PROCEDURES. IAW 8-6-7.E.(3).
28. ADDED "MIN GP INCPT 2300" AND "GP ALT AT: GERLE 2300" TO LINE 6 - ADDED VERTICALLY GUIDED PROCEDURES. IAW 8260.19H 8-6-7.F.
29. ADDED "GP ANGLE: 3.00" AND "TCH 55.0" TO LINE 7 - ADDED VERTICALLY GUIDED PROCEDURES. IAW 8260.19H 8-6-7.G.(1) & (2).
30. ADDED LPV AND LNAV/VNAV LINES OF MINIMA - ATC REQUEST/FPT CHECK LIST.
31. LOWERED LNAV ALL CATS MDA/HAT FROM 1140/470 TO 1080/410 - NEW CONTROLLING OBSTACLE.
32. LOWERED LNAV CAT C VISFROM 1 1/4 TO 1 1/8 AND CAT D FROM 1 1/2 TO 1 1/8.
33. DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIPED ON V191 NORTHBOUND" - REMOVED FEEDER.
34. DELETED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOGMI ON V7 NORTHBOUND" - MOVED FIX OFF OF THE AIRWAY.
35. ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C" - ADDED VERTICALLY GUIDED PROCEDURES. IAW 8260.19H 8-6-9.S.

6/22/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 9/14/2017:  
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

FLIGHT CHECKED BY

PENDING

DEVELOPED BY

DONALD H. LANIER (JACOB MAXFIELD)

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

DONALD H LANIER

Jun 25, 2018

Digitally signed by

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Jun 25, 2018

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DONALD H LANIER

Jun 25, 2018

OFFICE

OFFICE

AJV-5433

OFFICE

AJV-5430

DATE

DATE

09/14/2017

DATE

TITLE

MANAGER



