

**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>             | <u>AIRPORT ID</u>                | <u>PROCEDURE NAME</u>        | <u>ORIGINAL/AMENDMENT</u>      | <u>CITY</u>           | <u>STATE</u>   |                   |
|----------------------------|----------------------------------|------------------------------|--------------------------------|-----------------------|----------------|-------------------|
| MENOMONIE MUNI-SCORE FIELD | KLUM                             | RNAV (GPS) RWY 9             | 1                              | MENOMONIE             | WI             |                   |
| <u>AIRPORT ELEVATION</u>   | <u>TDZE</u>                      | <u>SUPERSEDED</u>            | <u>ORIGINAL/AMENDMENT</u>      | <u>DATED</u>          | <u>MAG VAR</u> | <u>EPOCH YEAR</u> |
| 895                        | 894                              | RNAV (GPS) RWY 9             | ORIG-A                         | 08/23/2012            | 1E             | 2000              |
| <u>FACILITY</u>            | <u>COORDINATES OF FACILITIES</u> | <u>ACTUAL EFFECTIVE DATE</u> | <u>REQUIRED EFFECTIVE DATE</u> | <u>CANCEL/SUSPEND</u> |                |                   |
| RNAV                       |                                  | 20 JUNE 2019                 | ROUTINE                        |                       |                |                   |

**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> |
|-----------------------|------------------------|-----------------------|------------------------|------------------------|---------------------|-------------------|----------------------|------------------------|------------------------|
| ELPAS                 | IAF                    | HATEL                 | NOPT                   | TF                     | FB                  | 1.00              | 044.40               | 10.24                  | 2800                   |
| BITLR                 | IAF                    | HATEL                 | NOPT                   | TF                     | FB                  | 1.00              | 086.94               | 7.22                   | 2800                   |
| HATEL                 | IF/IAF                 | ANILE                 |                        | TF                     | FB                  | 1.00              | 088.15               | 6.02                   | 2800                   |
| ANILE                 | FAF                    | WIBAM/2.20 NM TO RW09 |                        | TF                     | FB                  | 0.30              | 088.25               | 3.64                   |                        |
| WIBAM/2.20 NM TO RW09 |                        | RW09                  | MAP                    | TF                     | FO                  | 0.30              | 088.25               | 2.20                   |                        |
| RW09                  | MAP                    | 1400 MSL              |                        | CA                     |                     |                   | 088.25               |                        | 1400                   |
| 1400 MSL              |                        | GAGNR                 |                        | DF                     | FO                  | 1.00              |                      |                        | 2800                   |

**MISSED APPROACH**

**MAP:**

LPV: DA  
 LNAV/VNAV: DA  
 LNAV: RW09

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 2800 DIRECT GAGNR AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD W HATEL, RT, 088.15 INBOUND, 2800 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 088.25FAF: ANILEDIST FAF TO MAP: 5.84DIST FAF TO THLD: 5.84

4. MIN ALT: HATEL 2800, ANILE 2800, WIBAM/2.20 NM TO RW09 1640\*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.64GS ANT:

6. MIN GP INCPT: 2800GP ALT AT FAF : ANILE 2800OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 47.5

8. MSA FROM: RW09 3200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ELPAS ON V26 SOUTHWEST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BITLR ON V510 NORTHWEST BOUND AND V413 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.  
CHART VDP AT 1.32 NM TO RW09\*  
\*LNAV ONLY  
WAAS CHANNEL #40304  
REFERENCE PATH ID: W09A  
FAS OBST: 1099 TREE 445306N/0915240W.  
1339 AAO 445420N/0920044W.  
HOLD NE, RT, 220.00 INBOUND  
LTP HAE: 241.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT B 1000-2, CAT C 1000-2 3/4

| 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       | 1144   | 3/4   | 250     | 1144   | 3/4   | 250     | 1144   | 3/4   | 250     |        | NA  |         |        |     |         |
| LNAV/VNAV DA | 1423   | 1 1/2 | 529     | 1423   | 1 1/2 | 529     | 1423   | 1 1/2 | 529     |        | NA  |         |        |     |         |
| LNAV MDA     | 1360   | 1     | 466     | 1360   | 1     | 466     | 1360   | 1 3/8 | 466     |        | NA  |         |        |     |         |
| CIRCLING     | 1420   | 1     | 525     | 1800   | 1 1/4 | 905     | 1820   | 2 3/4 | 925     |        | NA  |         |        |     |         |



CHANGES - REASONS

1. DELETED FEEDER (EAU VTAC TO HATEL) FROM PROCEDURE - ATC REQUEST TO AVOID AIRSPACE CONFLICT.
2. INTERMEDIATE SEGMENT LENGTH CHANGED FROM 6.10 TO 6.02 - FAF (ANILE) MOVED.
3. FAF MOVED 0.8 NM WEST - TCH CHANGED.
4. FINAL (ANILE TO WIBAM) SEGMENT LENGTH CHANGED FROM 3.56 TO 3.64 - FAF MOVED.
5. FINAL STEPDOWN (WIBAM TO RW09) COURSE CHANGED FROM 88.31 TO 88.25 - APPLY CONSISTANT COURSE ON ALL FINAL SEGMENTS.
6. TCH CHANGED FROM 43 TO 47.5 - MATCH VGSI.
7. MISSED APPROACH CHANGED FROM OJYAB AT 2800 TO GAGNR AT 2800 - ATC REQUEST TO AVOID AIRSPACE CONFLICT.
8. LINE 3 DIST FAF TO MAP/THLD CHANGED FROM 5.76 TO 5.84 - FAF MOVED.
9. FAS OBST CHANGED FROM 1019 TREE TO 1099 TREE - OBSTACLE EVAL.
10. 34:1 CHANGED FROM NOT CLEAR TO CLEAR - OBSTACLE EVAL.
11. ADDED 20:1 IS CLEAR TO LINE 7 - NEW CRITERIA IN 8260.19H.
12. LPV DA / VIS / HAT CHANGED FROM 1193 / 1 / 299 TO 1144/ 3/4 / 250 - OBSTACLE EVAL.
13. LNAV/VNAV DA / VIS / HAT CHANGED FROM 1279 / 1 1/4 / 385 TO 1423 / 1 1/2 / 529 - OBSTACLE EVAL.
14. LNAV CAT C VISIBILITY CHANGED FROM 1 1/4 TO 1 3/8 - NEW VIS TOOL CALCULATION.
15. CIRCLING CAT A MDA / HAA CHANGED FROM 1440 / 545 TO 1420 / 525 - OBSTACLE EVAL.
16. CIRCLING CAT B MDA / VIS / HAA CHANGED FROM 1440 / 1 / 545 TO 1800 / 1 1/4 / 905 - APPLIED NEW CIRCLING RADII WITH OBSTACLE EVAL.
17. CIRCLING CAT C MDA / VIS / HAA CHANGED FROM 1520 / 1 3/4 / 925 TO 1820 / 2 3/4 / 925 - APPLIED NEW CIRCLING RADII WITH OBSTACLE EVAL.
18. CHARTED CIRCLING ICON - APPLIED NEW CIRCLING CRITERIA.
19. CHARTED RNP APCH NOTE - PBN REQUIREMENTS NOTE.
20. DELETED FAHRENHEIGHT TEMPS FROM UNCOMPENSATED BARO-VNAV NOTE - NO LONGER REQUIRED.
21. DELETED VIS INOP, RWY 9 RESTRICTION AT NIGHT NOTE - VISI PENS TO RWY 9 CLEAR.
22. DELETED DME/DME RNP-0.3 NA NOTE - CHARTED RNP APCH PBN NOTE.
23. DELETED VISIBILITY REDUCTION BY HELICOPTER NOTE - VISI PENS TO RWY 9 CLEAR.
24. DELETED VGSI NOT COINCIDENT NOTE - TCH CHANGED TO MATCH VGSI.
25. DELETED PLANVIEW NOTE FOR PROCEDURE NA FOR ARRIVALS AT EAU VORTAC - TURN EXCEEDS 90 DEGREES.
26. ADDED V413 WESTBOUND RESTRICTION TO ARRIVAL RESTRICTION TO BITLR PLAN NOTE - DELETED EAU VTAC FEEDER.
27. ADDED ARRIVAL RESTRICTION PLANVIEW NOTE FOR ELPAS - TURN EXCEEDS 90 DEGREES.
28. DELTED BACKUP ALTIMETER SETTING NOTES - KLUM ALTIMETER SETTING ON WSMCR, MOVED TO BACK OF -9.
29. UPDATED FAS DATA: CRC CHANGED FROM B341BDB0 TO 17BD81B7 - TCH AND FPAP CHANGED.
30. 7:1 OBSTACLE CHANGED FROM 1262 TOWER TO 1339 AAO - OBSTACLE EVAL.
31. ADDED "CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT" - NO SURVEY, UNABLE TO VERIFY VISUAL SURFACE CLEAR.
32. ADDED VDP - 20:1 SURFACE IS CLEAR.
33. CHANGED "DISTANCE TO THLD FROM 299 HAT: 0.81 NM" TO "250 HAT: 0.64 NM" - UPDATED CALCULATION.
34. ADDED "MAX 6000" TO H-I-L ON LINE 2 - PER .19H PARA 8-6-7B (2).
35. ADDED ALTERNATE MINIMUMS FOR CAT B AND C - EXCEEDS STANDARD MINS OF 800-2.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZMP, AMGR, WI AV DEPT.

FLIGHT CHECKED BY

JEFFREY W HARING

DEVELOPED BY

KELLY DEAN

APPROVED BY

PATRICK MULQUEEN

Digitally signed by

DONALD H LANIER

Jan 30, 2019

Digitally signed by

KELLY D DEAN

Nov 07, 2018

Digitally signed by

DONALD H LANIER

Jan 30, 2019

OFFICE

FICO

OFFICE

AJV-5431

OFFICE

AJV-5430

DATE

1/9/19

DATE

10/23/2018

DATE

TITLE  
MANAGER



**FAS DATA BLOCK INFORMATION**

| <b><u>DATA FIELD</u></b>                 | <b><u>DATA</u></b> |
|------------------------------------------|--------------------|
| OPERATION TYPE                           | 0                  |
| SBAS SERVICE PROVIDER IDENTIFIER         | 0                  |
| AIRPORT IDENTIFIER                       | KLUM               |
| RUNWAY                                   | RW09               |
| APPROACH PERFORMANCE DESIGNATOR          | 0                  |
| ROUTE INDICATOR                          |                    |
| REFERENCE PATH DATA SELECTOR             | 0                  |
| REFERENCE PATH IDENTIFIER (APPROACH ID)  | W09A               |
| LTP/FTP LATITUDE                         | 445326.9590N       |
| LTP/FTP LONGITUDE                        | 0915236.8850W      |
| LTP/FTP ELLIPSOIDAL HEIGHT               | +02413             |
| FPAP LATITUDE                            | 445327.9500N       |
| FPAP LONGITUDE                           | 0915031.5605W      |
| THRESHOLD CROSSING HEIGHT (TCH)          | 00047.5            |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F                  |
| GLIDEPATH ANGLE (GPA)                    | 03.00              |
| COURSE WIDTH AT THRESHOLD                | 106.75             |
| LENGTH OFFSET                            | 1200               |
| HORIZONTAL ALERT LIMIT (HAL)             | 40.0               |
| VERTICAL ALERT LIMIT (VAL)               | 50.0               |

|               |          |
|---------------|----------|
| CRC REMAINDER | 17BD81B7 |
|---------------|----------|

**ADDITIONAL PATH POINT RECORD INFORMATION**

|                         |        |
|-------------------------|--------|
| ICAO CODE               | K5     |
| LTP ORTHOMETRIC HEIGHT  | +02719 |
| FPAP ORTHOMETRIC HEIGHT | +02719 |

