

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> KMQB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1E	<u>CITY</u> MACOMB	<u>STATE</u> IL		
<u>AIRPORT ELEVATION</u> 706	<u>TDZE</u> 706	<u>SUPERSEDED</u> RNAV (GPS) RWY 9	<u>ORIGINAL/AMENDMENT</u> 1D	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 1E	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 15 JUNE 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
BRL VOR/DME		HUKPO		TF	FB	1.00	175.68	6.24	2300
HUKPO	IAF	TUYOB	NOPT	TF	FB	1.00	175.69	6.00	2300
ZUVBO	IAF	TUYOB	NOPT	TF	FB	1.00	021.91	6.00	2300
TUYOB	IF/IAF	WEKEM		TF	FB	1.00	088.91	6.53	2300
WEKEM	FAF	GICSE/1.70 NM TO RW09		TF	FB	0.30	089.00	3.18	
GICSE/1.70 NM TO RW09		RW09	MAP	TF	FO	0.30	089.00	1.70	
RW09	MAP	906 MSL		CA			089.00		
906 MSL		WULIN		DF	FO	1.00			2300

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 DIRECT WULIN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD W TUYOB, RT, 088.91 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 089.00FAF: WEKEMDIST FAF TO MAP: 4.88DIST FAF TO THLD: 4.88

4. MIN ALT: TUYOB 2300, WEKEM 2300, GICSE/1.70 NM TO RW09 1280

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.50GS ANT:

6. MIN GP INCPT: 2300GP ALT AT PFAF : WEKEM 2300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW09 2500

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BURLINGTON IA ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BRL VOR/DME AIRWAY RADIALS 088 CW 241.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURLINGTON IA ALTIMETER SETTING: INCREASE LPV DA TO 969 FEET AND LNAV/VNAV DA TO 1173 FEET; INCREASE ALL MDA 80 FEET AND VISIBILITY CATS C AND D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 269.25 INBOUND.
CHART FAS OBST: 839 TREE 403103N/0904212W.
CHART VDP AT 1.10 NM TO RW09.
WAAS CHANNEL # 82531
REFERENCE PATH ID: W09A
LTP HAE: 181.9 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2, CAT D 900-2 3/4, 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
LPV DA	906	1	200	906	1	200	906	1	200	906	1	200			
LNAV/VNAV DA	1110	1 3/8	404	1110	1 3/8	404	1110	1 3/8	404	1110	1 3/8	404			
LNAV MDA	1100	1	394	1100	1	394	1100	1 1/8	394	1100	1 1/8	394			
CIRCLING	1120	1	414	1260	1	554	1520	2 1/2	814	1520	2 3/4	814			

CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM AMDT 1D (0/8305).
2. REMOVED "UIN VORTAC TO ZUVBO" FEEDER IN TERMINAL ROUTES - UIN VOR MON.
3. UPDATED PBN REQUIREMENTS NOTE FROM "RNP APCH" TO "RNP APCH - GPS" - IAW 8260.19I 8-6-8.B.(2).
4. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON UIN VORTAC AIRWAY RADIALS 321 CW 085" FROM NOTES SECTION - UIN FEEDER REMOVED, UIN VOR MON.
5. REMOVED "*" FROM "TUYOB 2300, WEKEM 2300, GICSE/1.70 NM TO RW09 1280*" IN PROFILE LINE 4 AND FROM "CHART VDP AT 1.10 NM TO RW09*" IN ADDITIONAL FLIGHT DATA; REMOVED NOTE "**LNAV ONLY" FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED IAW 8260.19I 8-6-7.D.
6. UPDATED REMOTE ALTIMETER NOTE FROM "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURLINGTON IA ALTIMETER SETTING AND INCREASE ALL DA 63 FEET AND ALL MDA 80 FEET; INCREASE LNAV VISIBILITIES CAT C/D AND CIRCLING CAT C/D VISIBILITY 1/4 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURLINGTON IA ALTIMETER SETTING: INCREASE LPV DA TO 969 FEET AND LNAV/VNAV DA TO 1173 FEET; INCREASE ALL MDA 80 FEET AND VISIBILITY CATS C AND D 1/4 SM" - IAW 8260.19I 8-6-9.F.(4).

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMU, AMGR

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION.

OFFICE**DATE**

Digitally signed by

JASON KRETSCHMER

Mar 20, 2023

DEVELOPED BY

JASON KRETSCHMER (COLIN CAMPBELL)

Digitally signed by

JASON KRETSCHMER

Mar 20, 2023

OFFICE

AJV-A421

DATE

11/17/2022

APPROVED BY

JASON KRETSCHMER

Digitally signed by

JASON KRETSCHMER

Mar 20, 2023

OFFICE

AJV-A421

DATE**TITLE**

MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMQB
RUNWAY	RW09
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W09A
LTP/FTP LATITUDE	403110.9130N
LTP/FTP LONGITUDE	0903939.7645W
LTP/FTP ELLIPSOIDAL HEIGHT	+01819
FPAP LATITUDE	403110.7800N
FPAP LONGITUDE	0903742.9300W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1192
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	E9DE5784

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02151
FPAP ORTHOMETRIC HEIGHT	+02151