

**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> MQB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 27	<u>ORIGINAL/AMENDMENT</u> 1D	<u>CITY</u> MACOMB	<u>STATE</u> IL
<u>AIRPORT ELEVATION</u> 706	<u>TDZE</u> 686	<u>SUPERSEDED</u> RNAV (GPS) RWY 27	<u>DATED</u> 03/25/2021	<u>MAG VAR</u> 1E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 DECEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1990
				<u>CANCEL/SUSPEND</u>

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BADER		JUTSI		TF	FB	1.00	025.81	5.57	2300
JUTSI	IAF	WULIN	NOPT	TF	FB	1.00	329.06	6.00	2300
LOGOS	IAF	WULIN	NOPT	TF	FB	1.00	223.56	14.86	2300
WULIN	IF/IAF	ODOYO		TF	FB	1.00	269.25	6.04	2300
ODOYO	FAF	IWNUM/1.60 NM TO RW27		TF	FB	0.30	269.16	3.36	
IWNUM/1.60 NM TO RW27		RW27	MAP	TF	FO	0.30	269.16	1.60	
RW27	MAP	886 MSL		CA			269.16		
886 MSL		TUYOB		DF	FO	1.00			2300

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW27

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2300 DIRECT TUYOB AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD E WULIN, RT, 269.25 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 269.16	FAF: ODOYO		DIST FAF TO MAP: 4.96	DIST FAF TO THLD: 4.96	
4. MIN ALT: WULIN 2300, ODOYO 2300, IWNUM/1.60 NM TO RW27 1220					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	200 HAT: 0.50	GS ANT:
6. MIN GP INCPT: 2300	GP ALT AT FAF: ODOYO 2300			OM:	MM:
7. GP ANGLE: 3.00	34:1: IS CLEAR	20:1: IS CLEAR	TCH: 40.0		IM:
8. MSA FROM: RW27 2500					

QUALITY  
13  
CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BURLINGTON ALTIMETER SETTING.  
CHART NOTE: CIRCLING NA TO RWYS 18 AND 36.  
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 BADER ON V67 SOUTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LOGOS ON V48 EASTBOUND.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURLINGTON ALTIMETER SETTING AND INCREASE LPV DA TO 949 FEET; INCREASE LNAV/VNAV DA TO 1040 FEET; INCREASE ALL MDAS 80 FEET AND VISIBILITY CAT C/D 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 088.91 INBOUND.  
CHART FAS OBST: 789 TREE 403123N/0903831W.  
CHART VDP AT 1.00 NM TO RW27.  
WAAS CHANNEL # 40331  
REFERENCE PATH ID: W27A  
LTP HAE: 173.9 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	886	1	200	886	1	200	886	1	200	886	1	200			
LNAV/VNAV DA	977	1	291	977	1	291	977	1	291	977	1	291			
LNAV MDA	1040	1	354	1040	1	354	1040	1	354	1040	1	354			
CIRCLING	1120	1	414	1260	1	554	1520	2 1/2	814	1520	2 3/4	814			

CHANGES - REASONS

- INCORPORATED CHANGES FROM P-NOTAM FOR AMDT 1C INTO FORM – IAW 8260.19I PARA 8-3-4.C (3).
- PROFILE: REMOVED “\*” FROM LINE “4. MIN ALT: WULIN 2300. ODOYO 2300. IVNUM/1.60 NM TO RWY 27 1220\*” – ASSOCIATED WITH “\*LNAV ONLY”, NO LONGER REQUIRED PER CURRENT CRITERIA.
- PBN REQUIREMENTS NOTE: CHANGED FROM “RNP APCH.” TO “RNP APCH – GPS.” – IAW 8260.19I PARA 8-6-8.B (2).
- NOTES: AMENDED CHART PLANVIEW NOTE FROM “PROCEDURE NA FOR ARRIVALS AT BADER ON V67 SOUTHEAST AND ON V586 SOUTHWEST BOUND” TO “PROCEDURE NA FOR ARRIVALS AT BADER ON V67 SOUTHEAST BOUND” – V586 NO LONGER ACTIVE.
- NOTES: AMENDED CHART NOTE FROM “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 1/8 SM, AND CIRCLING CAT C/D 1/4 SM” TO “WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BURLINGTON ALTIMETER SETTING AND INCREASE LPV DA TO 949 FEET; INCREASE LNAV/VNAV DA TO 1040 FEET; INCREASE ALL MDAS 80 FEET AND VISIBILITY CAT C/D 1/4 SM.” – UPDATING TO NEWER CRITERIA FORMAT.
- ADDITIONAL FLIGHT DATA: REMOVED “\*” FROM “CHART VDP AT 1.00 NM TO RW27\*”, DELETED “\*LNAV ONLY” – NO LONGER REQUIRED PER CURRENT CRITERIA.



COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

☐

HAI

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NBAA

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OTHER:

ZAU, 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

Digitally signed by

CASIMIR L TABAKA

Oct 31, 2023

DATE

07/10/2023

DEVELOPED BY

CASIMIR L. TABAKA (CHRISTOPHER D. WILKINSON)

Digitally signed by

CASIMIR L TABAKA

Oct 31, 2023

OFFICE

AJV-A432

DATE

07/10/2023

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

Oct 31, 2023

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD  
OPERATION TYPE  
SBAS SERVICE PROVIDER IDENTIFIER  
AIRPORT IDENTIFIER  
RUNWAY  
APPROACH PERFORMANCE DESIGNATOR  
ROUTE INDICATOR  
REFERENCE PATH DATA SELECTOR  
REFERENCE PATH IDENTIFIER (APPROACH ID)  
LTP/FTP LATITUDE  
LTP/FTP LONGITUDE  
LTP/FTP ELLIPSOIDAL HEIGHT  
FPAP LATITUDE  
FPAP LONGITUDE  
THRESHOLD CROSSING HEIGHT (TCH)  
TCH UNITS SELECTOR (METERS OR FEET USED)  
GLIDEPATH ANGLE (GPA)  
COURSE WIDTH AT THRESHOLD  
LENGTH OFFSET  
HORIZONTAL ALERT LIMIT (HAL)  
VERTICAL ALERT LIMIT (VAL)

DATA  
0  
0  
KMQB  
RW27  
0  
0  
W27A  
403110.8360N  
0903833.7340W  
+01739  
403110.9600N  
0904030.5600W  
00040.0  
F  
03.00  
106.75  
1192  
40.0  
35.0

CRC REMAINDER 6DEB84EC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5  
LTP ORTHOMETRIC HEIGHT +02071  
FPAP ORTHOMETRIC HEIGHT +02071

