

**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.

AIRPORT ID MRN	PROCEDURE NAME RNAV (GPS) RWY 21	ORIGINAL/AMENDMENT 1C	CITY MORGANTON	STATE NC
AIRPORT ELEVATION 1270	TDZE 1270	SUPERSEDED RNAV (GPS) RWY 21	DATED 05/20/2021	MAG VAR 7W
FACILITY RNAV	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE 27 NOVEMBER 2025	REQUIRED EFFECTIVE DATE ROUTINE	EPOCH YEAR 2005
			CANCEL/SUSPEND	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GOWBE		CIKIS		TF	FO	1.00	328.97	6.49	4400
CIKIS	IF/IAF	ZAGOK		TF	FB	1.00	210.71	6.89	3700
ZAGOK		CICAC		TF	FB	1.00	210.63	2.91	3000
CICAC	FAF	JAGUP/1.90 NM TO RW21		TF	FB	0.30	210.63	3.39	
JAGUP/1.90 NM TO RW21		RW21	MAP	TF	FO	0.30	210.63	1.90	
RW21	MAP	1520 MSL		CA			210.63		
1520 MSL		CIKIS		DF	FO	1.00			4400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 4400 DIRECT CIKIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NE CIKIS, LT, 210.71 INBOUND, 4400 IN LIEU OF PT (IAF), MAX 6000.
- FAC: 210.63 FAF: CICAC DIST FAF TO MAP: 5.29 DIST FAF TO THLD: 5.29
- MIN ALT: CIKIS 4400, ZAGOK 3700, CICAC 3000, JAGUP/1.90 NM TO RW21 1920
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 250 HAT: 0.64 GS ANT: IM:
- MIN GP INCPT: 3000 GP ALT AT PFAF: CICAC 3000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 45.0
- MSA FROM: RW21 7400



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HKY ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GOWBE ON V259 SOUTHEAST BOUND.
 CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE HKY ALTIMETER SETTING AND INCREASE LPV DA TO 1562 FEET; LNAV/VNAV DA TO 1642 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 1419 TREE 354955N/0813543W.
 CHART VDP AT 0.97 NM TO RW21.
 WAAS CHANNEL # 40322
 REFERENCE PATH ID: W21A
 LTP HAE: 354.7 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
LPV DA	1520	1	250	1520	1	250	1520	1	250	1520	1	250			
LNAV/VNAV DA	1600	1	330	1600	1	330	1600	1	330	1600	1	330			
LNAV MDA	1680	1	410	1680	1	410	1680	1 1/8	410	1680	1 1/8	410			
CIRCLING	1720	1	450	1760	1	490	1800	1 1/2	530	2140	2 3/4	870			



CHANGES - REASONS

1. TERMINAL ROUTES: UPDATED GOWBE TO CIKIS RNP FROM "2.00" TO "1.00" - IAW 8260.18C TABLE 1-2-1.
2. TERMINAL ROUTES: UPDATED CIKIS TO ZAGOK RNP FROM "0.50" TO "1.00" - IAW 8260.18C TABLE 1-2-1.
3. TERMINAL ROUTES: UPDATED FINAL AND MISSED COURSES FOR JABGUP TO RW21 AND RW21 TO 1520 MSL FROM "210.62" TO "210.63" - UPDATED COURSE CALCULATIONS.
4. TERMINAL ROUTES: ADDED 1520 MSL TO CIKIS RNP "1.00" - IAW 8260.18C TABLE 1-2-1.
5. PROFILE LINE 2: ADDED MAX HOLD-IN-LIEU ALTITUDE "6000" - PER 8260.19J, PARA 8-6-7B(2)(A).
6. PROFILE LINE 4: REMOVED "ASTERISK" FROM JAGUP/1.90 NM TO RW21 1920 - NO LONGER REQUIRED.
7. PROFILE LINE 5: ADDED "250 HAT: 0.64" - MOVED FROM ADDITIONAL FLIGHT DATA TO LINE 5 IAW 8260.19J 8-6-7 E.(4).
8. PROFILE LINE 7: UPDATED 34:1 FROM "IS CLEAR" TO "IS NOT CLEAR", AND ADDED 20:1 "IS CLEAR" - 34:1 OBSTACLES, IAW 8260.19J 8-6-7 G.(3).
9. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS" - IAW 8260.19J 8-6-8.
10. NOTES: UPDATED CHART NOTE FROM "BARO-VNAV NA WHEN USING RCKORY ALTIMETER SETTING" AND "VDP NA WITH HICKORY ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING HKY ALTIMETER SETTING" - IAW 8260.19J 8-6-10 E.(8) AND (9).
11. NOTES: UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 35C (95F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C" - IAW 8260.19J 8-6-10 R.
12. NOTES: ADDED CHART NOTE "RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 34:1 OBSTACLES.
13. NOTES: UPDATED CHART NOTE FROM "WHEN LOCAL ALTIMETER NOT RECEIVED USE HICKORY ALTIMETER: INCREASE LPV DA TO 1562 FEET, LNAV/VNAV DA TO 1642 FEET, AND VISIBILITY LPV ALL CATS 1/4 SM AND LNAV/VNAV ALL CATS 1/8 SM; INCREASE ALL MDA 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM" TO "WHEN LOCAL ALTIMETER NOT RECEIVED, USE HKY ALTIMETER SETTING AND INCREASE LPV DA TO 1562 FEET; LNAV/VNAV DA TO 1642 FEET; INCREASE ALL MDAS 60 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING CAT D 1/4 SM" - IAW 8260.19J F.(4).
14. NOTES: REMOVED "CHART NOTE: DME/DME RNP-0.3 NA." - NO LONGER APPLICABLE.
15. ADDITIONAL FLIGHT DATA: REMOVED "**LNAV ONLY" - IAW 8260.19J 8-6-8.
16. ADDITIONAL FLIGHT DATA: REMOVED LPV FAS OBSTACLE "1419 TREE 354959N/0813547W" - IAW 8260.19J 8-6-11 C.
17. ADDITIONAL FLIGHT DATA: REMOVED "ASTERISK" FROM CHART VDP AT 0.97 NM TO RW21 - NO LONGER REQUIRED.
18. MINIMUMS: UPDATED LPV VISIBILITY ALL CATS FROM "3/4" TO "1" - NO FULL LENGTH TAXIWAY OR CONTROL TOWER IAW 8260.3G TABLE 3-3-6.
19. MINIMUMS: UPDATED LNAV/VNAV VISIBILITY ALL CATS FROM "1 11/8" TO "1" - IAW 8260.3G TABLE 3-3-1.
20. CRC REMAINDER UPDATED FROM "C645AC3C" TO "E5A56CF0" - LTP UPDATED FROM "354937.7570N/0813627.7070W" TO "354937.7525N/0813627.7085W" AND FPAP UPDATED FROM "354816.0000N/0813711.5800W" TO "354815.9885N/0813711.5815W".

COORDINATED WITH:

A4A
 ALPA
 AOPA
 APA
 HAI
 NBAA

OTHER: ZTL, AMGR

FLIGHT CHECKED BY

KEVIN RIESE

Digitally signed by

RAKE MCGRAW **OFFICE**

Jul 29, 2025

AJF

DATE

07/22/2025

DEVELOPED BY

DANIEL WESTON

Digitally signed by

RAKE MCGRAW **OFFICE**

Jul 29, 2025

AJV-A422

DATE

06/02/2025

APPROVED BY

RAKE MCGRAW

Digitally signed by

RAKE MCGRAW **OFFICE**

Jul 29, 2025

AJV-A422

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMRN
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	354937.7525N
LTP/FTP LONGITUDE	0813627.7085W
LTP/FTP ELLIPSOIDAL HEIGHT	+03547
FPAP LATITUDE	354815.9885N
FPAP LONGITUDE	0813711.5815W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER E5A56CF0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+03870
FPAP ORTHOMETRIC HEIGHT	+03870

