# 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 PROCEDURE NAME** MKT

RNAV (GPS) RWY 22

ORIGINAL/AMENDMENT

CITY

**STATE** 

**AIRPORT ELEVATION** 

**TDZE SUPERSEDED**  **ORIGINAL/AMENDMENT** 

MANKATO **DATED** 

MN **MAG VAR EPOCH YEAR** 

1021

1021

10/07/2021

2025

**FACILITY** 

RNAV (GPS) RWY 22

ORIG-B

RNAV

**COORDINATES OF FACILITIES** 

**ACTUAL EFFECTIVE DATE 30 NOVEMBER 2023** 

REQUIRED EFFECTIVE DATE 11/30/2023

**CANCEL/SUSPEND** 

0E

TAA

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	ALTITUDE
1. 137/30 CW 318/30	NOPT	137/12 CW 318/12		2900
2. 137/12 CW 318/12		IKIBY	IF/IAF	2700
3. 318/30 CW 047/30		NUNVE	IAF	2900
4. 047/30 CW 137/30		JOGDU	IAF	2900

# **TERMINAL ROUTES**

FROM	FIX TYPE	<u>TO</u>	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JOGDU	IAF	IKIBY	NOPT	TF	FB	1.00	137.41	5.00	2700
NUNVE	IAF	IKIBY	NOPT	TF	FB	1.00	317.52	5.00	2700
IKIBY	IF/IAF	EBUHE		TF	FB	1.00	227.47	6.20	2700
EBUHE	FAF	RW22	MAP	TF	FO	0.30	227.40	5.08	
RW22	MAP	1421 MSL		CA			227.40		
1421 MSL		KABGE		DF	FO	1.00			2700

# MISSED APPROACH

MAP:

LNAV: RW22

# **MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 2700 DIRECT KABGE AND HOLD.

# **ALTERNATE MISSED APPROACH INSTRUCTIONS:**

AIRPORT ID PROCEDURE NAME ORIGINAL/AMENDMENT CITY STATE

MKT RNAV (GPS) RWY 22 1 1 MANKATO MN

#### PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. HOLD NE IKIBY, RT, 227.47 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.

4. MIN ALT: IKIBY 2700, EBUHE 2700

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

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

7. GP ANGLE: 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH:

8. MSA FROM:

# PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

# NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART SPEED ICON IN PLANVIEW AT JOGDU: MAX 210 KIAS.

CHART SPEED ICON IN PLANVIEW AT NUNVE: MAX 210 KIAS.

# **ADDITIONAL FLIGHT DATA:**

HOLD SW, RT, 047.20 INBOUND. FAS OBST: 1300 AAO 441551N/0934959W. CHART VDP AT 1.61 NM TO RW22. EBUHE TO RW22: 3.04/40.

# MINIMUMS:

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

ALTERNATE: NA STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:		Α			В			С			D			E	
FINAL TYPE	DA/MDA	<u>VIS</u>	HAT/HAA												
LNAV MDA	1560	1	539	1560	1	539	1560	1 1/2	539		NA				
CIRCLING	1560	1	539	1560	1	539	1600	1 1/2	579		NA				

	ROCEDURE NAME NAV (GPS) RWY 22	ORIGINAL/AMENDMENT 1	<u>CITY</u> MANKATO	<u>STATE</u> MN
CHANGES - REASONS				
3. TAA CHANGED FROM "133/12 CW 313/12 T 4. TAA CHANGED FROM "313/30 CW 043/30 T 5. TAA CHANGED FROM "043/30 CW 133/30 T 6. TERMINAL ROUTES: COURSE FROM JOGI 7. TERMINAL ROUTES: COURSE FROM JUNI 8. TERMINAL ROUTES: ADDED FAF TO MAP 10. TERMINAL ROUTES: ADDED FAF TO MAP 10. TERMINAL ROUTES: ADDED CA LEG RW. 11. TERMINAL ROUTES: ADDED DF LEG 142- 12. PROFILE LINE 2: ADDED "MAX 6000" - IAV 13. PROFILE LINE 3: CHANGED FAC FROM 2: 14. PROFILE LINE 3: CHANGED FAC FROM 2: 15. PBN REQUIREMENTS NOTE: ADDED "RN 16. DELETED "CHART NOTE: VISIBILITY RED VISUAL SURFACE PENETRATIONS. 17. UPDATED CHART PROFILE NOTE FROM 8260.19I, 8-6-9.M(1). 18. MOVED AND UPDATED BACKUP ALTIME" 19. ADDED NOTE: "CHART SPEED ICON IN P 20. ADDED NOTE: "CHART SPEED ICON IN P 21. ADDITIONAL FLIGHT DATA: CHANGED HC 22. ADDITIONAL FLIGHT DATA: DELETED "CH 441551N/0934959W" - UPDATED DBSTACLE I 23. ADDITIONAL FLIGHT DATA: ADDED "CHA 24. MINIMUMS: UPDATED LNAV MDA/HAT FR	**CO 133/12 CW 313/12" TO "137/30 CW 318/30 TO 1 O IKIBY" TO "137/12 CW 318/12 TO IKIBY" - MAG' O NUNVE" TO "318/30 CW 047/30 TO NUNVE" - NO JOGDU" TO "047/30 CW 137/30 TO JOGDU" - NO TO IKIBY CHANGED FROM 133.41 TO 137.41 OVE TO IKIBY CHANGED FROM 313.52 TO 317.52 OVE TO IKIBY CHANGED FROM 223.47 TO 227.47 OVE TO EBUHE CHANGED FROM 223.47 TO 227.47 OVE TO 1421 MSL - IAW 8260.58B, 3-5-2. OVE TO 191, 8-6-7.B(2) OVE TO 191, 8-6-7.B(2) OVE TO 191, 8-6-7.B(3). OVE TO 191, 8-6-	VAR. IAGVAR. IAGVAR. IAGVAR. MAGVAR. MAGVAR. MAGVAR. MAGVAR. ANA" FROM NOTES – IAW 8260.19I, 8-6-8. RT NOTE: RWY 22 HELICOPTER VISIBILIT T" TO "VGSI AND DESCENT ANGLES NOT OF THE COURSE. REQUEST. REQUEST. REQUEST. 3.20 INBOUND TO HOLD SW, RT, 047.20 IN AND UPDATED FAS OBSTACLE FROM 12	Y RÉDÜCTION BELOW 1 SM NOT A COINCIDENT (VGSI ANGLE {ANGLE IBOUND – MAGVAR.	E}/TCH {FEET})" – IAW
25. MINIMUMS: UPDATED CIRCLING CATS A	AND B MDA/HAA FROM 1540/519 TO 1560/539 - I	RAISED TO MEET STRAIGHT-IN MDA.		
10/18/2023: THIS IS AN UPDATED COPY OF T 1: REQUIRED EFFECTIVE DATE: CHANGED F				
COORDINATED WITH:				
	HAI NBAA χ OTHER:	ZMP, AMGR		
FLIGHT CHECKED BY PENDING	Digitally signed by  DAVID DANNER  Oct 23, 2023	OFFICE	DATE	
DEVELOPED BY JASON KRETSCHMER (DANIEL R. JOHNSON	Digitally signed by  DAVID DANNER  Oct 23, 2023	OFFICE AJV-A421	<b>DATE</b> 03/13/2023	
APPROVED BY JASON KRETSCHMER	Digitally signed by  DAVID DANNER  Oct 23, 2023	OFFICE AJV-A420	<b>DATE</b>	<u>TITLE</u> IANAGER