

**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> MKT	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 15	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MANKATO	<u>STATE</u> MN
<u>AIRPORT ELEVATION</u> 1021	<u>TDZE</u> 1020	<u>SUPERSEDED</u> RNAV (GPS) RWY 15	<u>ORIG-B</u> 10/07/2021	<u>MAG VAR</u> 0E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 NOVEMBER 2023	<u>REQUIRED EFFECTIVE DATE</u> 11/30/2023	<u>EPOCH YEAR</u> 2025
			<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 064/30 CW 245/30	NOPT	HIBOG	IF/IAF	2700
2. 245/30 CW 335/30		GADGY	IAF	2800
3. 335/30 CW 064/30		LEPAC	IAF	3200

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>
GADGY	IAF	HIBOG	NOPT	TF	FB	1.00	244.56	5.00	2700
LEPAC	IAF	HIBOG	NOPT	TF	FB	1.00	064.42	5.00	2700
HIBOG	IF/IAF	DIKGO		TF	FB	1.00	154.50	6.19	2600
DIKGO	FAF	RW15	MAP	TF	FO	0.30	154.52	4.81	
RW15	MAP	1270 MSL		CA			154.52		
1270 MSL		ANIMY		DF	FO	1.00			2900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2900 DIRECT ANIMY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD NW HIBOG, RT, 154.50 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	154.52	FAF:	DIKGO	DIST FAF TO MAP:	4.81	DIST FAF TO THLD:	4.81							
4.	MIN ALT:	HIBOG 2700, DIKGO 2600													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.64	GS ANT:				
6.	MIN GP INCPT:	2600	GP ALT AT PFAF:	DIKGO 2600											
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	48.0					IM:		
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE +54°C.
CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART SPEED ICON IN PLANVIEW AT GADGY: MAX 210 KIAS.

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

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 334.65 INBOUND.
CHART FAS OBST: 1138 TRANSMISSION_LINE (27-001040) 441450N/0935606W.
1180 AAO 441758N/0935941W.
CHART VDP AT 1.04 NM TO RW15.
WAAS CHANNEL # 45615
REFERENCE PATH ID: W15A
LTP HAE: 282.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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	1270	1	250	1270	1	250	1270	1	250	1270	1	250			
LNAV/VNAV DA	1299	1	279	1299	1	279	1299	1	279	1299	1	279			
LNAV MDA	1400	1	380	1400	1	380	1400	1	380	1400	1	380			
CIRCLING	1460	1	439	1480	1	459	1600	1 1/2	579	1600	2	579			



CHANGES - REASONS

1. ALL COURSES UPDATED 4 DEGREES. – KMKT MAGVAR UPDATED FROM E4/1985 TO E0/2025.
2. TERMINAL ROUTE: FROM HIBOG TO DIKGO COURSE FROM “150.49” TO “154.52” AND DISTANCE FROM “6.25” TO “6.19” - NEW MAGVAR AND IAW 8260.19I 8-6-4.
3. TERMINAL ROUTE: ADDED ROUTES “DIKGO TO RW15”, CA LEG AND MISSED APPROACH SEGMENTS TO FORM - IAW 8260.58B, 3-5-2.A.(2) AND 8260.19I, 8-6-4.
4. PROFILE LINE 2: UPDATED FROM “HOLD NW HIBOG, RT, 150.49 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 2700.” TO “HOLD NW HIBOG, RT, 154.50 INBOUND, 2900 FT. IN LIEU OF PT (IAF), MAX 6000.” - NEW MAGVAR AND IAW 8260.19I, 8-6-7.B.
5. PROFILE LINE 3: UPDATED FAC FROM “150.54” TO 154.52”, DISTANCE FAF TO MAP FROM “4.75” TO “4.81” AND DISTANCE FAF TO THLD FROM “4.75” TO “4.81” - NEW MAGVAR AND PFAF MOVED PER FPT REDESIGN REQUEST.
6. DELETED ASTERISK ON PROFILE LINE 4 AND “*LNAV ONLY” CHART NOTE – NO LONGER REQUIRED IAW 8260.19I, PARA 1-1-5.F.(12).
7. PROFILE LINE 5: UPDATED FROM “353 HAT: 0.96” TO “250 HAT: 0.64” AND RELOCATED FROM ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE.
8. PROFILE LINE 6: AMENDED FROM “DIKGO” TO “DIKGO 2600” – IAW 8260.19I, 8-6-7.F(2).
9. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO PENETRATIONS EXIST AND IAW 8260.19I, 8-6-7.
10. NOTES: DELETED “CHART NOTE: DME/DME RNP-0.3 NA” AND ADDED “RNP APCH - GPS” TO PBN REQUIREMENTS NOTE - IAW 8260.19I, 8-6-8.B(2).
11. NOTES: UPDATED AND MOVED BACKUP ALTIMETER NOTES TO 8260-9 IN GENERAL REMARKS - FOR CONTINGENCY PURPOSES IAW 8260.19I, 8-6-9 (F)(4).
12. NOTES: UPDATED CHART NOTE FROM “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C (2°F) OR ABOVE 46°C (114°F).” TO “FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.”- IAW 8260.19I, 8-6-9.R.
13. NOTES: ADDED CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED – PER ADO REQUEST, VIS NO LOWER THAN 1 SM.
14. ADDED CHART SPEED ICON IN PLANVIEW AT GADGY: MAX 210 KIAS - MITIGATE LEG LENGTH CRITERIA ISSUES.
15. ADDED CHART SPEED ICON IN PLANVIEW AT LEPAC: MAX 210 KIAS - MITIGATE LEG LENGTH CRITERIA ISSUES.
16. ADDITIONAL FLIGHT DATA: HOLDING NOTE CHANGED FROM “HOLD SE, RT, 330.65 INBOUND” TO “HOLD SE, RT, 334.65 INBOUND” - NEW MAGVAR.
17. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBST FROM “1138 TRMSN TWR 441450N/0935606W.” TO “1138 TRANSMISSION_LINE (27-001040) 441450N/0935606W.” - IAW 8260.19I, 8-6-10.(C).
18. ADDITIONAL FLIGHT DATA: ADDED 7:1 OBSTACLE “1180 AAO 441758N/0935941W - NEW 7:1 OBSTACLE IAW 8260.19I 8-6-10.E.
19. LOWERED LPV DA/VIS/HAT FROM “1373/1 1/8/ 353” TO “1270/1/250” - NEW CONTROLLING OBSTACLE AND VIS PER ADO.
20. LOWERED LNAV/VNAV DA/VIS/HAT FROM “1416/1 3/8/396” TO “1299/1/279” - NEW CONTROLLING OBSTACLE AND VIS PER ADO.
21. FAS DATA: UPDATED LTP/FTP LAT/LONG FROM “441359.5180N/0935528.7705W” TO “441359.5145N/0935528.7740W”, UPDATED FPAP LAT/LONG FROM “441239.0500N/0935435.5700W” TO “441239.0495N/0935435.5560W” AND UPDATED CRC REMAINDER FROM “5639F223” TO “CAD13408” -SURVEY DATED 11/09/2017 UPDATED LTP LAT/LONG AND NEW FAF PLACEMENT, BOTH CHANGED CRC REMAINDER IN SIAP.

10/18/2023: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 3/01/2023:
1: REQUIRED EFFECTIVE DATE: CHANGED FROM ROUTINE TO 11/30/2023.

COORDINATED WITH:

A4A

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ALPA

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AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER:

ZMP, AMGR

FLIGHT CHECKED BY
PENDING

Digitally signed by
DAVID DANNER
Oct 23, 2023

OFFICE
DATE

DEVELOPED BY
JASON KRETSCHMER (TODD A. RUSSELL)

Digitally signed by
DAVID DANNER
Oct 23, 2023

OFFICE
AJV-A423
DATE
03/01/2023

APPROVED BY
JASON KRETSCHMER

Digitally signed by
DAVID DANNER
Oct 23, 2023

OFFICE
AJV-A421
DATE
TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMKT
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	441359.5145N
LTP/FTP LONGITUDE	0935528.7740W
LTP/FTP ELLIPSOIDAL HEIGHT	+02821
FPAP LATITUDE	441239.0495N
FPAP LONGITUDE	0935435.5560W
THRESHOLD CROSSING HEIGHT (TCH)	00048.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0736
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	CAD13408

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03105
FPAP ORTHOMETRIC HEIGHT	+03105

