

**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> CFS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24	<u>ORIGINAL/AMENDMENT</u> 2A	<u>CITY</u> CARO	<u>STATE</u> MI
<u>AIRPORT ELEVATION</u> 704	<u>TDZE</u> 701	<u>SUPERSEDED</u> RNAV (GPS) RWY 24	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 8W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 APRIL 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2020
			<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>
MBS VOR/DME		RAYOL		TF	FO	1.00	094.34	35.45	3000
WINTO		RAYOL		TF	FO	1.00	001.44	12.30	2400
RAYOL	IF/IAF	KAYET		TF	FB	1.00	238.57	5.00	2300
KAYET	FAF	LIYIG/2.60 NM TO RW24		TF	FB	0.30	238.51	2.30	
LIYIG/2.60 NM TO RW24		RW24	MAP	TF	FO	0.30	238.51	2.60	
RW24	MAP	1104 MSL		CA			238.51		
1104 MSL		BIRRS		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LNAV: RW24

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 3100 DIRECT BIRRS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NE RAYOL, RT, 238.57 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 6000.					
3. FAC: 238.51	FAF: KAYET	DIST FAF TO MAP: 4.90	DIST FAF TO THLD: 4.90		
4. MIN ALT: RAYOL 2300, KAYET 2300, LIYIG/2.60 NM TO RW24 1560					
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 NOT CLEAR	TCH:		
8. MSA FROM: RW24 3100					



PBN REQUIREMENTS NOTE:

DME/DME RNP-0.3 NA.

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA TO RWYS 13 AND 31.
CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA AT NIGHT.

CHART PLAN VIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MBS VOR/DME AIRWAY RADIAL 016.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 137.00 INBOUND.
FAS OBST: 888 TREE (26-047647) 432918N/0832504W.
KAYET TO RW24: 3.00/40.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT C 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
LNAV MDA	1140	1	439	1140	1	439	1140	1 1/4	439		NA				
CIRCLING	1200	1	496	1200	1	496	1600	2 3/4	896		NA				

CHANGES - REASONS

1. TERMINAL ROUTES: LINE 1 CHANGED RNP VALUE FROM "2.00" TO 1.00" - PER CRITERIA 8260.58C 1-2-4 (C).
2. TERMINAL ROUTES: LINE 2 CHANGED RNP VALUE FROM "2.00" TO 1.00" - PER CRITERIA 8260.58C 1-2-4 (C).
3. PROFILE: LINE 2 CHANGED FROM "HOLD NE RAYOL, RT, 238.57 INBOUND, 2300 FT. IN LIEU OF PT (IAF)" TO "HOLD NE RAYOL, RT, 238.57 INBOUND, 2300 FT. IN LIEU OF PT (IAF), MAX 6000" - ADDED MAX ALTITUDE PER CRITERIA 8260.19J 8-6-7 (B) (2).
4. MINIMUMS: ALTERNATE MINIMUMS CHANGED FROM "STANDARD" TO "STANDARD - CAT C 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE" - CIRCLING MDA CAT C RAISED DUE TO NEW CONTROLLING OBSTACLE.
5. MINIMUMS: AMENDED CIRCLING CAT C FROM "MDA 1220/VIS 1 1/2" TO "MDA 1600/VIS 2 3/4" - DUE TO NEW OBSTACLE SURVEY.
6. MINIMUMS: UPDATED LNAV HAT FROM "440" TO "439" ALL CATS - TDZE CHANGED PER NEW AIRNAV DATA.
7. MINIMUMS: AMENDED CIRCLING CAT C HAT FROM/HAA FROM "516" TO "896" - NEW OBSTACLE SURVEY.
8. ADDITIONAL FLIGHT DATA: UPDATED FAS OBSTACLE FROM "CHART FAS OBST: 888 TREE (26-047647) 432918N/0832504W" TO "FAS OBST: 888 TREE (26-047647) 432918N/0832504W" - REMOVED "CHART" PER CRITERIA 8260.19J 8-6-11 (C).
9. PROFILE: LINE #7 ADDED "20:1 IS NOT CLEAR" - PER CRITERIA 8260.19J 8-6-7 (G)(3).
10. NOTES: UPDATED PLAN VIEW NOTE FROM "PROCEDURE NA FOR ARRIVAL ON MBS VOR/DME AIRWAY RADIAL 016 CW 163" TO "PROCEDURE NA FOR ARRIVAL ON MBS VOR/DME AIRWAY RADIAL 016" - AIRWAY RADIAL 163 NO LONGER EXIST.



COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZOB, MBS APP CON, AMGR

FLIGHT CHECKED BY MA

SCOTT WIEBE

Digitally signed by

DAVID DANNER

Mar 03, 2025

OFFICE

AJF

DATE

03/02/2025

DEVELOPED BY
TRAVIS BRISTOW

Digitally signed by
TRAVIS D BRISTOW
Dec 16, 2024

OFFICE

AJV-A421

DATE

11/05/2024

APPROVED BY
DAVID DANNER

Digitally signed by
DAVID DANNER
Mar 03, 2025

OFFICE

DATE

TITLE
MANAGER

