

**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.

<b>AIRPORT ID</b> MHM/PAMH	<b>PROCEDURE NAME</b> RNAV (GPS) RWY 21	<b>ORIGINAL/AMENDMENT</b> 1	<b>CITY</b> MINCHUMINA	<b>STATE</b> AK
<b>AIRPORT ELEVATION</b> 682	<b>TDZE</b> 682	<b>SUPERSEDED</b> RNAV (GPS) RWY 21	<b>DATED</b> 11/05/2020	<b>MAG VAR</b> 14E
<b>FACILITY</b> RNAV	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b> 2 OCTOBER 2025	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>EPOCH YEAR</b> 2025
			<b>CANCEL/SUSPEND</b>	

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HEMRO	IAF	FEGEL	NOPT	TF	FB	1.00	246.96	18.67	4200
FEGEL	IF/IAF	ZUVOD		TF	FB	1.00	211.35	4.78	3600
ZUVOD		CURNO		TF	FB	1.00	211.32	1.30	3300
CURNO	FAF	BOBCE/5.24 NM TO RW21		TF	FB	0.30	211.17	2.83	
BOBCE/5.24 NM TO RW21		ADMEW/3.11 NM TO RW21		TF	FB	0.30	211.17	2.14	
ADMEW/3.11 NM TO RW21		RW21	MAP	TF	FO	0.30	211.17	3.11	
RW21	MAP	1040 MSL		CA			211.17		
1040 MSL		BECAG		DF	FO	1.00			3400

**MISSED APPROACH**

**MAP:**

LP: RW21  
LNAV: RW21

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3400 DIRECT BECAG AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NE FEGEL, RT, 211.35 INBOUND, 4200 FT. IN LIEU OF PT (IAF), MAX 6000.
- FAC: 211.17 FAF: CURNO DIST FAF TO MAP: 8.07 DIST FAF TO THLD: 8.07
- MIN ALT: FEGEL 4200, ZUVOD 3600, CURNO 3300, BOBCE/5.24 NM TO RW21 2400, ADMEW/3.11 NM TO RW21 1720
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT:
- MIN GP INCPT: GP ALT AT FAF: OM: MM: IM:
- GP ANGLE: 34:1: IS CLEAR 20:1: IS CLEAR TCH:
- MSA FROM: RW21 4800



**PBN REQUIREMENTS NOTE:**

RNP APCH - GPS.

**NOTES:**

CHART NOTE: CIRCLING NA NW OF RWY 03-21.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HEMRO ON T222-V480 NORTHEAST BOUND.

**ADDITIONAL FLIGHT DATA:**

HOLD SW, RT, 030.74 INBOUND.  
CHART FAS OBST: 1006 TREE (02-052337) 635340N/1521854W, 788 TREE (02-081895) 635332N/1521739W.  
CHART VDP AT 0.97 NM TO RW21.  
WAAS CHANNEL # 81947  
REFERENCE PATH ID: W21A  
CHART AT OR ABOVE 5000 AT HEMRO.  
CURNO TO RW21: 3.00/50.  
CHART CIRCLING ICON.  
LTP HAE: 217.4 M

**MINIMUMS:**

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

**ALTERNATE:** NA  STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2

<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>
LP MDA	1040	1	358	1040	1	358	1040	1	358	1040	1	358			
LNAV MDA	1260	1	578	1260	1	578	1260	1 5/8	578	1260	1 5/8	578			
CIRCLING	1260	1	578	1260	1	578	1460	2 1/4	778	1460	2 1/2	778			



**CHANGES - REASONS**

1. MAGVAR UPDATED FROM "E 21/2005" TO "E 14/2025" - MAGVAR UPDATE.
2. TERMINAL ROUTES: UPDATED HEMRO TO FEGEL COURSE FROM "239.96" TO "246.96" - MAG VAR UPDATE.
3. TERMINAL ROUTES: UPDATED FEGEL TO ZUVOD COURSE FROM "204.35" TO "211.35" - MAG VAR UPDATE.
4. TERMINAL ROUTES: UPDATED ZUVOD TO DEPPA COURSE / DISTANCE FROM "204.35 / 2.40" TO ZUVOD TO CURNO "211.32 / 1.30" - DEPPA REMOVED, NEW FAF LOCATION.
5. TERMINAL ROUTES: REMOVED "DEPPA TO YESUP/3.14 NM TO KISLE" AND "YESUP/3.14 NM TO KISLE TO KISLE" - DEPPA AND MAP KISLE REMOVED.
6. TERMINAL ROUTES: ADDED "CURNO TO BOBCE/5.24 NM TO RW21, TF, FB, RNP 0.30, COURSE 211.17, DISTANCE 2.83" - NEW FAF, SDF, MAP.
7. TERMINAL ROUTES: ADDED "BOBCE/5.24 NM TO RW21 TO ADMEW/3.11 NM TO RW 21, TF, FB, RNP 1.00, COURSE 211.17, DISTANCE 2.14" - NEW SDFS, MAP.
8. TERMINAL ROUTES: ADDED "ADMEW/3.11 NM TO RW 21 TO RW21, TF, FB, RNP 1.00, COURSE 211.17, DISTANCE 3.11" - NEW SDF, MAP.
9. TERMINAL ROUTES: ADDED CA LEG "RW21 TO 1040 MSL COURSE 211.17" - NEW MAP.
10. TERMINAL ROUTES: UPDATED MISSED DF LEG FROM "KISLE TO BECAG" TO "1040 MSL TO BECAG" - NEW MAP.
11. MAP: ADDED "LP: RW21" - IFP CHECKLIST.
12. PROFILE LINE 2: UPDATED FROM " HOLD NE FEGEL, RT, 204.35 INBOUND, 4200 FT. IN LIEU OF PT (IAF)" TO "HOLD NE FEGEL, RT, 211.35 INBOUND, 4200 FT. IN LIEU OF PT (IAF), MAX 6000" - MAG VAR UPDATE.
13. PROFILE LINE 3: UPDATED FROM "FAC: 204.17 FAF: DEPPA DIST FAF TO MAP: 6.48 DIST FAF TO THLD: 6.97" TO "FAC: 211.17 FAF: CURNO DIST FAF TO MAP: 8.07 DIST FAF TO THLD: 8.07" - NEW FAF AND MAP.
14. PROFILE LINE 4: UPDATED FROM "MIN ALT: FEGEL 4200, ZUVOD 3600, DEPPA 3300, YESUP/3.14 NM TO KISLE 2060" TO "FEGEL 4200, ZUVOD 3600, CURNO 3300, BOBCE/5.24 NM TO RW21 2400, ADMEW/3.11 NM TO RW21 1720" - NEW FAF, SDFS, AND MAP.
15. PROFILE LINE 7: ADDED "20:1: IS CLEAR" - 20:1 IS CLEAR.
16. PROFILE LINE 8: UPDATED FROM "KISLE 4800" TO "RW21 4800" - IAW 8260.19J 8-6-7.
17. PBN REQUIREMENTS NOTE: ADDED "RNP APCH - GPS" - IAW 8260.19J 8-6-8.
18. NOTES: REMOVED "CHART NOTE: DME/DME RNP-0.3 NA" - IAW 8260.19J 8-6-8.
19. NOTES: UPDATED FROM "CIRCLING NA WEST OF RWY 3-21" TO "CHART NOTE: CIRCLING NA NW OF RWY 03-21" - MAGVAR UPDATE.
20. NOTES: ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HEMRO ON T222-V480 NORTHEAST BOUND" - IAW 8-2-5 E.
21. ADDITIONAL FLIGHT DATA: UPDATED "HOLD SW, RT, 023.67 INBOUND" TO "HOLD SW, RT, 030.74 INBOUND" - MAGVAR UPDATE, BECAG MOVED 859 FT SW.
22. ADDITIONAL FLIGHT DATA: UPDATED FAS OBST FROM "CHART FAS OBST: 1044 TREES 635542N/1521033W" TO "CHART FAS OBST: 1006 TREE (02-052337) 635340N/1521854W, 788 TREE (02-081895) 635332N/1521739W" - NEW EVALUATION.
23. ADDITIONAL FLIGHT DATA: REMOVED "CHART 1844 TREES 635825N/1520542W" - NEW EVALUATION.
24. ADDITIONAL; FLIGHT DATA: UPDATED "CHART VDP AT 1.52 NM TO KISLE" TO "CHART VDP AT 0.97 NM TO RW21" - NEW EVALUATION.
25. ADDITIONAL FLIGHT DATA: ADDED "WAAS CHANNEL # 81947, REFERENCE PATH ID: W21A, AND LTP HAE: 217.4 M" - ADDED LP MINS.
26. ADDITIONAL FLIGHT DATA: UPDATED "DEPPA TO RW21: 3.50/35" TO "CURNO TO RW21: 3.00/50" - NEW FAF, VDA/TCH PER CHECKLIST.
27. ADDITIONAL FLIGHT DATA: ADDED "CHART AT OR ABOVE 5000 AT HEMRO" - FPT REQUEST, T222 AT 5000.
28. MINIMUMS: UPDATED LNAV MDA / VIS / HAT FROM "ALL CATS 1460 / CAT A 1, CAT B 1 1/4, CAT C 2 1/2, CAT D 2 1/2 / ALL CATS 778" TO "ALL CATS 1260 / CAT A/B 1, CAT C/D 1 5/8 / ALL CATS 578" - NEW EVALUATION.
29. MINIMUMS: UPDATED CIRCLING CAT A/B MDA / VIS / HAA FROM "ALL CATS 1460 / CAT A 1, CAT B 1/4, CAT C/D 2 1/2 / ALL CATS 778" TO "CATS A/B 1260, CATS C/D 1460 / CATS A/B 1, CAT C 2 1/4, CAT D 2 1/2 / CATS A/B 578, CATS C/D 778" - NEW EVALUATION.

**COORDINATED WITH:**

**A4A**
 **ALPA**
 **AOPA**
 **APA**
 **HAI**
 **NBAA**
**OTHER:** ZAN ARTCC, APT MGR

**FLIGHT CHECKED BY**

ROBERT T PERKINS

*Digitally signed by*

**RAKE MCGRAW** **OFFICE**

Jul 29, 2025

AJF

**DATE**

07/23/2025

**DEVELOPED BY**

DANIEL WESTON

*Digitally signed by*

**DANIEL L WESTON** **OFFICE**

Sep 20, 2024

AJV-A422

**DATE**

07/26/2024

**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	PAMH
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	635324.1015N
LTP/FTP LONGITUDE	1521733.6185W
LTP/FTP ELLIPSOIDAL HEIGHT	+02174
FPAP LATITUDE	635221.2545N
FPAP LONGITUDE	1521955.9875W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	00.0

CRC REMAINDER D4CEB48A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+02072
FPAP ORTHOMETRIC HEIGHT	+02072

