

**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> KMLS	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MILES CITY	<u>STATE</u> MT		
<u>AIRPORT ELEVATION</u> 2634	<u>TDZE</u> 2630	<u>SUPERSEDED</u> RNAV (GPS) RWY 22	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 05/26/2016	<u>MAG VAR</u> 9E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 27 JANUARY 2022	<u>REQUIRED EFFECTIVE DATE</u> 01/27/2022	<u>CANCEL/SUSPEND</u>		

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 133/30 CW 313/30	NOPT	AXUPE	IF/IAF	5900
2. 313/30 CW 043/30		WUTEK	IAF	5900
3. 043/30 CW 133/30		JASRU	IAF	5900

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WUTEK	IAF	AXUPE	NOPT	TF	FB	1.00	313.21	9.70	5900
JASRU	IAF	AXUPE	NOPT	TF	FB	1.00	133.01	9.70	5900
AXUPE	IF/IAF	ZONOG		TF	FB	1.00	223.11	8.07	4300
ZONOG	FAF	LOCIP/2.10 NM TO RW22		TF	FB	0.30	223.00	3.03	
LOCIP/2.10 NM TO RW22		RW22	MAP	TF	FO	0.30	223.00	2.10	
RW22	MAP	2880 MSL		CA			223.00		
2880 MSL		OPEJY		DF	FO	1.00			6000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 DIRECT OPEJY AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD NE AXUPE, RT, 223.11 INBOUND, 5900 FT. IN LIEU OF PT (IAF), MAX 9000.

3. FAF: 223.00FAF: ZONOGDIST FAF TO MAP: 5.13DIST FAF TO THLD: 5.13

4. MIN ALT: AXUPE 5900, ZONOG 4300, LOCIP/2.10 NM TO RW22 3320

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.67GS ANT:

6. MIN GP INCPT: 4300GP ALT AT PFAF : ZONOG 4300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 40.6

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING GLENDIVE ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GLENDIVE ALTIMETER SETTING: INCREASE LPV AND LNAV/VNAV DA TO 3047 AND ALL VISIBILITES 1/8 SM. INCREASE ALL MDA 180 FEET AND LNAV CAT C AND D VISIBILITIES 5/8 SM AND CIRCLING CAT C AND D VISIBILITES 1/2 SM.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 042.75 INBOUND.
CHART FAS OBST: 2735 BUILDING (30-058878) 462609N/1055053W.
CHART VDP AT 1.05 NM TO RW22.
WAAS CHANNEL # 77924
REFERENCE PATH ID: W22A
CHART CIRCLING ICON.
LTP HAE: 784.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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
LPV DA	2880	1	250	2880	1	250	2880	1	250	2880	1	250			
LNAV/VNAV DA	2880	1	250	2880	1	250	2880	1	250	2880	1	250			
LNAV MDA	3000	1	370	3000	1	370	3000	1	370	3000	1	370			
CIRCLING	3060	1	426	3100	1	466	3160	1 1/2	526	3320	2 1/4	686			

CHANGES - REASONS

1. TAA SECTOR 133/30 CW 313/30 (STRAIGHT-IN) MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - OBSTACLE EVAL.
2. TAA SECTOR 313/30 CW 043/30 (LEFT BASE) MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - OBSTACLE EVAL.
3. TAA SECTOR 043/30 CW 133/30 (RIGHT BASE) MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - OBSTACLE EVAL.
4. TERMINAL ROUTE: WUTEK MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - TAA STRAIGHT-IN ALTITUDE INCREASED.
5. TERMINAL ROUTE: JASRU MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - TAA STRAIGHT-IN ALTITUDE INCREASED.
6. TERMINAL ROUTE: AXUPE INTERMEDIATE DISTANCE INCREASED FROM 7.88 TO 8.07 - FAF (ZONOG) RELOCATED.
7. TERMINAL ROUTE: ZONOG TO LOCIP DISTANCE CHANGED FROM 3.12 TO 3.03 - FAF AND LOCIP RELOCATED.
8. TERMINAL ROUTE LOCIP TO RW22 DISTANCE CHANGED FROM 2.00 TO 2.10 - LOCIP RELOCATED.
9. LINE 2: HOLD-IN-LIEU MINIMUM ALTITUDE INCREASED FROM 5800 TO 5900 - TAA STRAIGHT-IN ALTITUDE INCREASED.
10. LINE 3: DIST FAF TO MAP/THLD CHANGED FROM 5.12 TO 5.13 - RWY AND FAF RELOCATED.
11. LINE 4 MINIMUM ALTITUDE AXUPE INCREASED FROM 5800 TO 5900 - TAA STRAIGHT-IN ALTITUDE INCREASED.
12. LINE 4: MINIMUM ALTITUDE LOCIP INCREASED FROM 3300 TO 3320 - LOCIP RELOCATED.
13. LINE 7: ADDED 20:1 IS CLEAR - REQUIRED BY CRITERIA.
14. DELETED NOTE: DME/DME RNP -0.3 NA, ADDED PBN REQUIREMENTS NOTE RNP APCH - GPS - CRITERIA CHANGE.
15. NOTES: DELETED FAHRENHEIT VALUES IN BARO VNAV NOTE - CRITERIA CHANGE
16. CHANGED BACKUP NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORSYTH ALTIMETER SETTING: INCREASE LPV DA TO 2966 AND LNAV/VNAV DA TO 2980 AND ALL VISIBILITIES 1/8 MILE. INCREASE ALL MDA 100 FT. AND LNAV CAT C AND D VISIBILITY 3/8 MILE AND CIRCLING CAT D 1/4 MILE TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GLENDIVE ALTIMETER SETTING: INCREASE LPV AND LNAV/VNAV DA TO 3041 AND ALL VISIBILITIES 1/8 SM. INCREASE ALL MDA 180 FEET AND LNAV CAT C AND D VISIBILITIES 5/8 SM AND CIRCLING CAT C AND D VISIBILITIES 1/2 SM. - BACKUP SOURCE CHANGED FROM FORSYTH, MT TO GLENDIVE, MT
17. LPV DA INCREASED FROM 2878 TO 2880 - TDZE CHANGED FROM 2628 TO 2630.
18. LNAV/VNAV DA/HAT LOWERED FROM 2892/264 TO 2880/250 - FINAL EVAL, ALL SURFACES CLEAR.
19. LNAV HAT LOWERED FROM 372 TO 370 - TDZE CHANGED FROM 2628 TO 2630.
20. CIRCLING CAT A HAA LOWERED FROM 430 TO 426, CAT B HAA LOWERED FROM 470 TO 466, CAT D HAA LOWERED FROM 690 TO 686 - AIRPORT ELEVATION CHANGED FROM 2630 TO 2634.
21. CIRCLING CAT C MDA/HAA INCREASED FROM 3120/490 TO 3160/526 - NEW CONTROLLING OBSTACLE/AIRPORT ELEVATION CHANGED FROM 2630 TO 2634.
22. LINE 7: PROCEDURE TCH CHANGED FROM 43.2 TO 40.6 - MIRROR THE VGSI.
23. FAS DATA: LTP CHANGED FROM 462552.7620N/1055244.0590W TO 462545.4060N/1055257.6440W - RWY RELOCATED.
24. FAS DATA: FPAP CHANGED FROM 462457.8300N/1055425.4445W TO 462450.4760N/1055439.0280W - RWY RELOCATED.
25. FAS DATA: LENGTH OFFSET CHANGED FROM 1024 TO 0992 - RECALCULATED VALUE.
26. FAS DATA: CRC REMAINDER CHANGED FROM 5BA9428D TO F2343C16 - CHANGES 22-25 ABOVE.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC, AMGR
Digitally signed by

FLIGHT CHECKED BY
PENDING

JON DENTON
Dec 15, 2021

OFFICE

DATE

DEVELOPED BY

RICHARD K. CLARK JR.

Digitally signed by
RICHARD K CLARK-JR

Nov 30, 2021

OFFICE

AJV-A432

DATE

10/14/2021

APPROVED BY

LONNIE EVERHART

Digitally signed by
JON DENTON

Dec 15, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMLS
RUNWAY	RW22
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W22A
LTP/FTP LATITUDE	462545.4060N
LTP/FTP LONGITUDE	1055257.6440W
LTP/FTP ELLIPSOIDAL HEIGHT	+07842
FPAP LATITUDE	462450.4760N
FPAP LONGITUDE	1055439.0280W
THRESHOLD CROSSING HEIGHT (TCH)	00040.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0992
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	F2343C16

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+08002
FPAP ORTHOMETRIC HEIGHT	+08002

