

# 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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
MSV	RNAV (GPS) RWY 33	2	MONTICELLO	NY	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
1403	1393	RNAV (GPS) RWY 33	03/25/2021	12W	1980
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	
RNAV		5 SEPTEMBER 2024	ROUTINE		

## 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>
HELON		EDREW		TF	FB	1.00	266.32	5.34	4500
EDREW		KBASH		TF	FB	1.00	266.24	5.28	4200
HAWLY		SCUDS		TF	FB	1.00	115.40	15.54	4500
SCUDS	IAF	MUMVE	NOPT	TF	FB	1.00	064.96	6.61	3300
KBASH	IAF	MUMVE	NOPT	TF	FB	1.00	245.12	7.36	3300
MUMVE	IF/IAF	BRGNR		TF	FB	1.00	335.04	5.66	3200
BRGNR	FAF	AVJUB/3.08 NM TO RW33		TF	FB	0.30	334.99	2.51	
AVJUB/3.08 NM TO RW33		RW33	MAP	TF	FO	0.30	334.99	3.08	
RW33	MAP	1643 MSL		CA			334.99		
1643 MSL		JIBOT		DF	FO	1.00			4000

## MISSED APPROACH

### MAP:

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW33

### MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT JIBOT AND HOLD.

### ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY  
35  
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE MUMVE, RT, 335.04 INBOUND, 3300 FT. IN LIEU OF PT (IAF), MAX 6000.														
3.	FAC:	334.99	FAF:	BRGNR	DIST FAF TO MAP:	5.59	DIST FAF TO THLD:	5.59							
4.	MIN ALT:	MUMVE 3300, BRGNR 3200, AVJUB/3.08 NM TO RW33 2400													
5.	DIST TO THLD FROM OM:		MM:	IM:	150 HAT:		250 HAT:	0.70	GS ANT:						
6.	MIN GP INCPT:	3200	GP ALT AT PFAF:	BRGNR 3200			OM:		MM:				IM:		
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	39.2							
8.	MSA FROM:	RW33 5400													

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: BARO-VNAV AND VDP NA WHEN USING NEW YORK STEWART INTL ALTIMETER SETTING.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HELON ON V167 SOUTHEAST BOUND, T216 EASTBOUND AND V213-249 NORTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HAWLY ON V36 NORTHWEST BOUND AND T216 SOUTHWEST BOUND.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEW YORK STEWART INTL ALTIMETER SETTING: INCREASE LPV DA TO 1848 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE LNAV/VNAV DA TO 1861 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE ALL MDAS 220 FEET AND LNAV VISIBILITY CAT C AND D 5/8 SM, AND CIRCLING VISIBILITY CAT C 3/4 SM AND CAT D 1/2 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 154.83 INBOUND.  
CHART FAS OBST: 1561 TRANSMISSION\_LINE (36-023038) 413949N/0744541W.  
1591 AAO 413842N/0744512W.  
CHART VDP AT 1.25 NM TO RW33.  
WAAS CHANNEL # 82345  
REFERENCE PATH ID: W33A  
LTP HAE: 389.7 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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	1643	1	250	1643	1	250	1643	1	250	1643	1	250			
LNAV/VNAV DA	1656	1	263	1656	1	263	1656	1	263	1656	1	263			
LNAV MDA	1820	1	427	1820	1	427	1820	1 1/4	427	1820	1 1/4	427			
CIRCLING	1900	1	497	1920	1	517	2020	1 3/4	617	2180	2 1/2	777			



**CHANGES - REASONS**

1. TERMINAL ROUTES: ADDED EDREW SDF FOR THE HELON FEEDER SEGMENT, UPDATED COURSES, DISTANCES AND ALTITUDES - PER ATC REQUEST.
2. TERMINAL ROUTES: CHANGED FROM "HAWLY TO ICIPA" TO "HAWLY TO SCUDS" SEGMENT, COURSE FROM 111.10 TO 115.40, DISTANCE FROM 16.60 TO 15.54 AND ALTITUDE FROM 4000 TO 4500 - ICIPA IAF REPLACED BY SCUDS AND RELOCATED PER ATC REQUEST.
3. TERMINAL ROUTES: CHANGED FROM "ICIPA TO MUMVE" TO "SCUDS TO MUMVE" SEGMENT, COURSE FROM 064.98 TO 064.96 AND DISTANCE FROM 5.00 TO 6.61 - ICIPA IAF REPLACED BY SCUDS AND RELOCATED PER ATC REQUEST.
4. TERMINAL ROUTES: CHANGED FROM "JEYPY TO MUMVE" TO "KBASH TO MUMVE" SEGMENT, COURSE FROM 245.10 TO 245.12 AND DISTANCE FROM 5.00 TO 7.36 NM - JEYPY IAF REPLACED BY KBASH AND RELOCATED PER ATC REQUEST.
5. TERMINAL ROUTES: REMOVED HUO VOR/DME IAF FROM PROCEDURE - HUO VOR MON NATL PROGRAM, PER ATC REQUEST.
6. TERMINAL ROUTES: CHANGED MUMVE TO BRGNR SEGMENT DISTANCE FROM 6.05 TO 5.66 - FAF MOVED BASED ON GPA/TCH TO ALIGN TO FAC.
7. TERMINAL ROUTES: CHANGED SDF FROM "AVJUB/3.00 NM TO RW33" TO "AVJUB/3.08 NM TO RW33" - SDF MOVED BASED ON GPA/TCH TO ALIGN TO FAC.
8. TERMINAL ROUTES: ADDED BRGNR TO SDF, SDF TO MAP, CA LEG AND MISSED APPROACH SEGMENTS - PER CRITERIA DOCUMENTATION REQUIREMENTS.
9. MISSED APPROACH: ADDED LPV: DA AND LNAV/VNAV: DA - LPV AND LNAV/VNAV MINS ADDED PER ATC REQUEST.
10. CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMBING RIGHT TURN TO 3300 DIRECT MUMVE AND HOLD" TO "CLIMB TO 4000 DIRECT JIBOT AND HOLD" - PER ATC REQUEST.
11. ADDED MAX HOLD-IN-LIEU ALTITUDE OF 6000 TO PROFILE LINE 2 - 8260.19I, 8-6-7B(2).
12. PROFILE LINE 3: CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM 5.20 TO 5.59 - FAF MOVED BASED ON GPA/TCH TO ALIGN TO FAC.
13. PROFILE LINE 4: CHANGED FROM "MUMVE 3300, BRGNR 3200, AVJUB/3.00 NM TO RW33 2400" TO "MUMVE 3300, BRGNR 3200, AVJUB/3.08 NM TO RW33 2400" - SDF MOVED BASED ON GPA/TCH TO ALIGN TO FAC.
14. PROFILE LINE 5: ADDED 250 HAT: 0.70 - PER 8260.19I, PARA 8-6-7E(3).
15. PROFILE LINE 6: ADDED MIN GP INCPT: 3200 AND GP ALT AT PFAF: BRGNR 3200 - ADDED VERTICALLY GUIDED MINS TO PROCEDURE.
16. PROFILE LINE 7: ADDED GP ANGLE 3.00 AND TCH 39.2 - PER 8260.19I, PARA 8-6-7G(1)&(2).
17. PROFILE LINE 7: ADDED 20:1: IS CLEAR - NO PENETRATIONS EXIST.
18. DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - GPS - PER 8260.19I, PARA 8-6-8B2.
19. REMOVED "CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT" - VGSI AND RNAV GLIDEPATH ARE COINCIDENT.
20. REMOVED "CHART PROFILE NOTE: PROCEDURE NA FOR ARRIVAL ON HUO VOR/DME AIRWAY RADIALS 314 CW 019" - HUO VOR/DME IAF REMOVED FROM PROCEDURE.
21. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEWBURGH ALTIMETER SETTING AND INCREASE ALL MDA 220 FT, INCREASE LNAV AND CIRCLING CAT C/D VISIBILITY 1/2 SM" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEW YORK STEWART INTL ALTIMETER SETTING: INCREASE LPV DA TO 1848 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE LNAV/VNAV DA TO 1861 FEET AND ALL VISIBILITIES 3/8 SM; INCREASE ALL MDAS 220 FEET AND LNAV VISIBILITY CAT C AND D 5/8 SM, AND CIRCLING VISIBILITY CAT C 3/4 SM AND CAT D 1/2 SM" - PER 8260.19I, PARA 8-6-11.
22. CHANGED CHART NOTE FROM "VDP NA WHEN USING NEWBURGH ALTIMETER SETTING" TO "BARO-VNAV AND VDP NA WHEN USING NEW YORK STEWART INTL ALTIMETER SETTING" - ADDED LNAV/VNAV MINS TO PROCEDURE.
23. ADDED "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C" - ADDED LNAV/VNAV MINS TO PROCEDURE.
24. ADDITIONAL FLIGHT DATA: ADDED "HOLD NW, RT, 154.83 INBOUND" - PER 8260.19I, PARA 8-6-10B(1).
25. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "1539 TREE 414018N/0744530W." TO "1561 TRANSMISSION\_LINE (36-023038) 413949N/0744541W" - NEW FINAL CONTROLLING OBSTACLE.
26. ADDITIONAL FLIGHT DATA: ADDED 7:1 OBSTACLE "1591 AAO 413842N/0744512W" - NEW OBSTACLE EVALUATION.
27. ADDITIONAL FLIGHT DATA: CHANGED FROM "CHART VDP AT 1.19 NM TO RW33" TO "CHART VDP AT 1.25 NM TO RW33" - VDP CHANGED BASED ON GPA/TCH.
28. ADDITIONAL FLIGHT DATA: REMOVED "BRGNR TO RW33: 3.23/39" - ADDED PA AND APV MINIMUMS.
29. ADDITIONAL FLIGHT DATA: ADDED "WAAS CHANNEL #82345", "REFERENCE PATH ID: W33A" AND "LTP HAE: 389.7 M" - APV MINIMUMS ADDED.
30. ADDED LPV AND LNAV/VNAV LINES OF MINS - AVP MINIMUMS ADDED.
31. ADDED FAS DATA BLOCK INFORMATION - LPV MINIMUMS ADDED.
32. CHANGED FROM "PROCEDURE NA FOR ARRIVALS AT HELON ON V167 SOUTHEAST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT HELON ON V167 SOUTHEAST BOUND, T216 EASTBOUND AND V213-249 NORTHEAST BOUND" - TURNS FROM T216 AND V213-249 EXCEED 90 DEGREES.
33. CHANGED FROM "PROCEDURE NA FOR ARRIVALS AT HAWLY ON V36 NORTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT HAWLY ON V36 NORTHWEST BOUND AND T216 SOUTHWEST BOUND" - TURN FROM T216 EXCEEDS 90 DEGREES.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: ZNY, NY APP CON, AMGR

FLIGHT CHECKED BY

JEREMY R VIRTIS

Digitally signed by

JOSEPH L ZEDER

Jul 25, 2024

OFFICE

FPO

DATE

07/02/2024

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by

CASIMIR L TABAKA

May 17, 2024

OFFICE

AJV-A432

DATE

03/07/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

CASIMIR L TABAKA

May 17, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSV
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	414143.4685N
LTP/FTP LONGITUDE	0744719.4275W
LTP/FTP ELLIPSOIDAL HEIGHT	+03897
FPAP LATITUDE	414254.6000N
FPAP LONGITUDE	0744831.1220W
THRESHOLD CROSSING HEIGHT (TCH)	00039.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	3322D1A0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04207
FPAP ORTHOMETRIC HEIGHT	+04207

