

**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</u> BLUE RIDGE	<u>AIRPORT ID</u> KMTV	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> MARTINSVILLE	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 941	<u>TDZE</u> 941	<u>SUPERSEDED</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/23/2010	<u>MAG VAR</u> 7W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 NOVEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u>

**TAA**

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 035/30 CW 215/30	NOPT	035/4 CW 215/4		6200
2. 035/4 CW 215/4		ALMAA	IF/IAF	5800
3. 215/30 CW 305/30		HUSIR		5800
4. 305/30 CW 035/30		HOCUS		5800

**TERMINAL ROUTES**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HOCUS	IAF	ALMAA		TF	FB	1.00	034.97	9.00	5800
HUSIR	IAF	ALMAA		TF	FB	1.00	215.07	9.00	5800
ALMAA	IF/IAF	AREVE		TF	FB	1.00	125.02	6.85	4300
AREVE	FAF	AIRER/3.82 NM TO RW13		TF	FB	0.30	125.10	5.11	
AIRER/3.82 NM TO RW13		RW13	MAP	TF	FO	0.30	125.10	3.82	
RW13	MAP	1301 MSL		CA			125.10		
1301 MSL		ULAKE		DF	FO	1.00			3000



**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW13

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 3000 DIRECT ULAKE AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF)

2. HOLD NW ALMAA, RT, 125.02 INBOUND, 5800 FT. IN LIEU OF PT (IAF), MAX 8000.

3. FAC: 125.10                      FAF: AREVE                      DIST FAF TO MAP: 8.93                      DIST FAF TO THLD: 8.93

4. MIN ALT: ALMAA 5800, AREVE 4300, AIRER/3.82 NM TO RW13 2400\*

5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      360 HAT: 0.86                      GS ANT:

6. MIN GP INCPT: 4300                      GP ALT AT FAF : AREVE 4300                      OM:                      MM:                      IM:

7. GP ANGLE: 3.50                      34:1: IS NOT CLEAR                      20:1: IS CLEAR                      TCH: 40.2

8. MSA FROM:

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 46°C.  
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

**ADDITIONAL FLIGHT DATA:**

HOLD SE, RT, 305.39 INBOUND.  
CHART FAS OBST: 1118 TREE 363800N/0800155W.  
2980 AAO 364221N/0801142W, 1360 AAO 363923N/0800619W.  
DISTANCE TO THLD FROM 360 HAT: 0.86 NM.  
CHART VDP AT 1.25 NM TO RW13\*  
\*LNAV ONLY.  
WAAS CHANNEL # 50218  
REFERENCE PATH ID: W13A  
CHART CIRCLING ICON.  
LTP HAE: 254.1 M



**MINIMUMS:**

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

**ALTERNATE:** NA ☐ STANDARD - CAT D 900-2 3/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<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>
LPV DA	1301	1	360	1301	1	360	1301	1	360	1301	1	360			
LNAV/VNAV DA	1324	1 1/8	383	1324	1 1/8	383	1324	1 1/8	383	1324	1 1/8	383			
LNAV MDA	1380	1	439	1380	1	439	1380	1 1/4	439	1380	1 1/4	439			
CIRCLING	1420	1	479	1440	1	499	1540	1 1/2	599	1800	2 3/4	859			



**CHANGES - REASONS**

1. UPDATED PROCEDURE NAME FROM "RNAV (GPS) RWY 12" TO "RNAV (GPS) RWY 13" - RUNWAY NUMBER CHANGED.
2. CHANGED FIX NAME FROM "HUSER" TO "HUSIR" - FIX MOVED 4.18 NM NORTHEAST.
3. CHANGED FIX NAME FROM "HOGAL" TO "HOCUS" - FIX MOVED 4.18 NM SOUTHEAST.
4. CHANGED FIX NAME FROM "WABDO" TO "ALMAA" - FIX MOVED 1.22 NM SOUTHEAST
5. CHANGED FIX NAME FROM "CONEP" TO "AIRER" - FIX MOVED 3.08 NM SOUTHEAST.
6. UPDATED TAA 215/30 CW 305/30 TO HUSIR ALTITUDE FROM "5600" TO "5800" - NEW EVALUATION.
7. UPDATED TERMINAL ROUTE: HOCUS TO ALMAA COURSE/DISTANCE FROM "034.97/5.00" TO "034.97/9.00" - CRITERIA CHANGE.
8. UPDATED TERMINAL ROUTE: HUSIR TO ALMAA COURSE/DISTANCE FROM "215.03/5.00" TO "215.07/9.00" - CRITERIA CHANGE.
9. UPDATED TERMINAL ROUTE: ALMAA TO AREVE COURSE/DISTANCE FROM "125.00/7.16" TO "125.02/6.85" - INTERMEDIATE SEGMENT SHORTENED TO KEEP A LOWER PFAF ALTITUDE.
10. UPDATED TERMINAL ROUTE: AREVE TO AIRER/3.82 NM TO RW13 COURSE/DISTANCE FROM "125.08/2.94" TO "125.09/5.11" - RAISED GPA DUE TO TERRAIN IN FINAL.
11. UPDATED TERMINAL ROUTE: AIRER/2.37 NM TO RW13 TO RW13 COURSE/DISTANCE FROM "125.08/6.9" TO "125.10/7.41" - TERRAIN IN FINAL CHANGED THE ANGLE OF FINAL.
12. UPDATED CA LEG: CHANGED ALTITUDE FROM "1292" TO "1301" - LPV DA INCREASED.
13. PROFILE LINE 2: ADDED "MAX 8000" TO HOLD-IN-LIEU. - IAW 8260.19H 8-6-7B (2).
14. PROFILE LINE 3: CHANGED FAF TO MAP AND DIST FAF TO THLD FROM "9.84" TO "8.93" - PFAF LOCATION MOVED.
15. PROFILE LINE 4: UPDATED MIN ALT FROM "WABDO 5500, AREVE 4200, CONEP/6.90 NM TO RW12 3220" TO "ALMAA 5800, AREVE 4300, AIRER/3.82 NM TO RW13 2400" - NEW EVALUATION.
16. PROFILE LINE 5: ADDED "360 HAT: 0.86" - DISTANCE TO THE HAT WAS DECREASED DUE TO 3.50 GPA.
17. PROFILE LINE 7: CHANGED GP ANGLE/20:1/TCH FROM "3.00/BLANK/40" TO "3.50/IS CLEAR/40.2" - TERRAIN NEAR THE FAF IS DRIVING THE INCREASE IN ANGLE.
18. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" AND ADDED "RNP APCH" IN PBN EQUIPMENT REQUIREMENT NOTES - IAW 8260.19H 8-6-8B (1)
19. REMOVED CHART NOTE "STRAIGHT-IN MINIMUMS NA AT NIGHT. - NEW SURVEY.
20. CHANGED CHART NOTE: FROM "VISIBILITY REDUCTION BY HELICOPTERS NA." TO "RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED." - IAW 8260.19H 8-6-11K (3).
21. ADDED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). GPA AND VGSI ANGLE DIFFER BY 0.50 DEGREES.
22. UPDATED TEMPERATURE NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (4F) OR ABOVE 47C (116F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 48C" - IAW 8260.19H 8-6-9S.
23. MOVED AND UPDATED ALTIMETER SETTING NOTES TO BACK OF -9 - PRIMARY AWOS ON WMSCR.
24. ADDITIONAL FLIGHT DATA: ADDED "CHART CIRCLING ICON" - NEW CIRCLING RADII APPLIED.
25. ADDITIONAL FLIGHT DATA: CHANGED CHART VDP FROM "1.40 NM TO RW12" TO "1.25 NM TO RW13" - UPDATED MDA.
26. ADDITIONAL FLIGHT DATA: CHANGED REFERENCE PATH ID FROM "W12A" TO "W13A" - RUNWAY NUMBER CHANGE.
27. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM "1112 TREE 363800N/0800155W" TO "1118 TREE 363800N/0800155W" - NEW SURVEY INCREASED HEIGHT OF OBSTACLE.
28. ADDITIONAL FLIGHT DATA: CHANGED 7:1 OBSTACLES FROM "3199 AAO 364200N/0801247W, 2159 AAO 363953N/0800919W" TO "2980 AAO 364221N/0801142W, 1360 363923N/0800619W" - CHANGE IN OEA AFTER NEW EVALUATION
29. ALTERNATE MINIMUMS: ADDED "CAT D 900-2 3/4" - CAT D CIRCLING MDA INCREASED.
30. INCREASED LPV DA/HAT FOR ALL CATEGORIES FROM "1292/351" TO "1301/360" - NEW EVALUATION.
31. DECREASED LPV VISIBILITY FROM "1 1/4 SM" TO "1 SM" - NEW VISCHECK CALCULATOR.
32. DECREASED LNAV/VNAV DA/HAT FOR ALL CATEGORIES FROM "1409/468" TO "1324/383" - NEW EVALUATION.
33. DECREASED LNAV/VNAV VISIBILITY FROM "1 3/4 SM" TO "1 1/8 SM" - NEW VISCHECK CALCULATOR.
34. DECREASED LNAV MDA/HAT FOR ALL CATEGORIES FROM "1420/479" TO "1380/439" - NEW EVALUATION.
35. INCREASED CMDA/HAA FOR CAT B FROM "1420/479" TO "1440/499" CAT C FROM "1420/479" TO "1540/599" CAT D "1520/579" TO "1800/859" - NEW CONTROLLING OBSTACLES BASED ON NEW CIRCLING AREA.
36. UPDATED CIRCLING VISIBILITY FOR CAT D FROM "2 SM" TO "2 3/4 SM"- NEW VISCHECK CALCULATOR.
37. CHANGED FAS DATA RUNWAY FROM "RW12" TO "RW13" - RUNWAY NUMBER CHANGED.
38. CHANGED FAS DATA REFERENCE PATH IDENTIFIER FROM "W12A" TO "W13A" - RUNWAY NUMBER CHANGED.
39. CHANGED FAS DATA LTP/FTP LATITUDE FROM "363802.3955N" TO "363802.3935N" - NEW SURVEY DATA.
40. CHANGED FAS DATA LTP/FTP LONGITUDE FROM "0800133.0620W" TO "0800133.0585W" - NEW SURVEY DATA.
41. CHANGED FAS DATA FPAP LATITUDE FROM "363720.2400N" TO "363720.2310N" - NEW SURVEY DATA.
42. CHANGED FAS DATA FPAP LONGITUDE FROM "0795955.5000W" TO "0795955.5053W" - NEW SURVEY DATA.
43. CHANGED FAS DATA THRESHOLD CROSSING HEIGHT FROM "00040.0" TO "00040.2" - NEW TCH USED PER FPT.
44. CHANGED FAS DATA GLIDEPATH ANGLE (GPA) FROM "03.00" TO "03.50" - NEW GPA USED PER FPT.
45. CRC REMAINDER CHANGED FROM "293B9EA1" TO "1235E44F" - DUE TO RWY, REFERENCE PATH ID, TCH AND GPA FAS DATA CHANGES.



COORDINATED WITH:

~~A4A~~ ☐    ~~ALPA~~ ☒    ~~AOPA~~ ☒    ~~APA~~ ☐    ~~HAI~~ ☐    ~~NBAA~~ ☒    OTHER:    ZDC, GSO APP CON, AIRPORT MANAGER

FLIGHT CHECKED BY

JEREMY R VIRTIS

*Digitally signed by*  
**DONALD H LANIER**  
Sep 25, 2020

OFFICE

FICO

DATE

9/24/2020

DEVELOPED BY

DONALD H. LANIER (CHRISTOPHER SCHONES)

*Digitally signed by*  
**DONALD H LANIER**

OFFICE

AJV-A431

DATE

07/09/2020

APPROVED BY

LONNIE EVERHART

Sep 25, 2020  
*Digitally signed by*  
**DONALD H LANIER**  
Sep 25, 2020

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	KMTV
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	363802.3935N
LTP/FTP LONGITUDE	0800133.0585W
LTP/FTP ELLIPSOIDAL HEIGHT	+02541
FPAP LATITUDE	363720.2310N
FPAP LONGITUDE	0795955.5050W
THRESHOLD CROSSING HEIGHT (TCH)	00040.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.50
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	1235E44F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02868
FPAP ORTHOMETRIC HEIGHT	+02868

