

**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> VIRGINIA TECH/MONTGOMERY EXECUTIVE	<u>AIRPORT ID</u> KBCB	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 13	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> BLACKSBURG	<u>STATE</u> VA	
<u>AIRPORT ELEVATION</u> 2120	<u>TDZE</u> 2119	<u>SUPERSEDED</u> RNAV (GPS) RWY 12	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 06/25/2015	<u>MAG VAR</u> 8W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 SEPTEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> 09/10/2020	<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>
WILIZ		HAWTO		TF	FO	1.00	356.58	26.42	5700
OBERS	IAF	HAWTO	NOPT	TF	FB	1.00	110.86	15.90	5700
HAWTO	IF/IAF	SUNNY		TF	FB	1.00	125.03	6.85	4200
SUNNY	FAF	ZUPAT/3.30 NM TO RW13		TF	FB	0.30	125.11	2.24	
ZUPAT/3.30 NM TO RW13		RW13	MAP	TF	FO	0.30	125.11	3.30	
RW13	MAP	2389 MSL		CA			125.11		
2389 MSL		ZASNO		DF	FO	1.00			5400

**MISSED APPROACH**

**MAP:**

LPV: DA  
LNAV/VNAV: DA  
LNAV: RW13

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 5400 DIRECT ZASNO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5400.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
VIRGINIA TECH/MONTGOMERY EXECUTIVE	KBCB	RNAV (GPS) RWY 13	3	BLACKSBURG	VA
<b>PROFILE:</b> 1. PT                      SIDE OF COURSE                      OUTBOUND                      FT WITHIN                      MILES OF                      (IAF) 2. HOLD NW HAWTO, RT, 125.03 INBOUND, 5700 FT. IN LIEU OF PT (IAF), MAX 6000. 3. FAF: 125.11                      FAF: SUNNY                      DIST FAF TO MAP: 5.55                      DIST FAF TO THLD: 5.55 4. MIN ALT:                      HAWTO 5700, SUNNY 4200, ZUPAT/3.30 NM TO RW13 3380* 5. DIST TO THLD FROM OM:                      MM:                      IM:                      150 HAT:                      270 HAT: 0.59                      GS ANT: 6. MIN GP INCPT: 4200                      GP ALT AT FAF :                      SUNNY 4200                      OM:                      MM:                      IM: 7. GP ANGLE: 3.44                      34:1: IS NOT CLEAR                      20:1: IS CLEAR                      TCH: 55.0 8. MSA FROM:                      RW13 5600					

**PBN REQUIREMENTS NOTE:**

RNP APCH.

**NOTES:**

CHART NOTE: RWY 13 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19°C OR ABOVE 54°C.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WILIZ ON V45 SOUTHEAST BOUND.  
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT OBERs ON V140 SOUTHWEST BOUND.  
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS, LNAV/VNAV ALL CATS, AND LNAV CATS A AND B.

**ADDITIONAL FLIGHT DATA:**

HOLD SE, RT, 305.33 INBOUND.  
CHART FAS OBST: 2260 TOWER 371357N/0802640W.  
3163 AAO 371624N/0803021W, 2858 AAO 371512N/0802842W.  
CHART VDP AT 0.94 NM TO RW13\*  
\*LNAV ONLY.  
WAAS CHANNEL # 86712  
REFERENCE PATH ID: W13A  
CHART CIRCLING ICON.  
LTP HAE: 614 M



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

**ALTERNATE:** NA ☐ STANDARD - CAT C 900-2 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	2389	1	270	2389	1	270	2389	1	270		NA				
LNAV/VNAV DA	2419	1	300	2419	1	300	2419	1	300		NA				
LNAV MDA	2520	1	401	2520	1	401	2520	1	401		NA				
CIRCLING	2760	1	640	2820	1	700	2980	2 1/2	860		NA				

**CHANGES - REASONS**

- 1. REMOVED SOFTY AND ZOOMS IAF'S. - SOFTY AND ZOOMS FIXES WILL NO LONGER EXIST DUE TO FUTURE VOR DECOMMISSIONS PER FPT.
- 2. REMOVED TABER AS MISSED APPROACH CLEARANCE LIMIT. - TABER FIX WILL NO LONGER EXIST DUE TO FUTURE VOR DECOMMISSIONS PER FPT.
- 3. ADDED OBERS FIX AS IAF WITH 5700 MIN ALT. - FACILITATE PROCEDURE ENTRY.
- 4. ADDED WILIZ FIX AS FEEDER WITH 5700 MIN ALT. - FACILITATE PROCEDURE ENTRY.
- 5. GPA AND TCH CHANGED FROM 3.10/51FT TO 3.44/55FT RESPECTIVELY. - AVOID OBSTACLE PENETRATION VGSI.
- 6. SUNNY PFAF MOVED COORDINATES FROM 371527.34N-0803146.84W TO 371518.18N-0803124.55W. - NEW GPA/TCH PRODUCES NEW OPTIMAL PFAF COORDINATES.
- 7. FAS DATA CHANGES: FPAP FROM 371156.9985N-0802313.977W TO 371205.4570N-0802334.5515W, LENGTH OFFSET FROM 1368 TO 1072, CRC REMAINDER FROM B4BE4281 TO 00A85E5F.
- 8. RAISED LPV DA MINIMUMS FROM 2363 TO 2389. - NEW MAP STUDY YIELDED NEW AAO DICTATING A 3.44GPA/55TCH REQUIRING A MINIMUM HAT OF 270, 8260.3D TABLE 3-2-2.
- 9. ADDED ZASNO AS MISSED APPROACH CLEARANCE LIMIT WITH MIN ALT OF 5400. - ENABLE REENTRY THROUGH RECIPROCAL RWY PER FPT.
- 10. MOVED HAWTO IF COORDINATES FROM 371825.42N-0803902.84W TO 371825.56N-0803903.42W. - ENABLED RUNWAY ALIGNMENT.
- 11. ADDED VDP AT .94NM FROM THRESHOLD. - 20:1 PENETRATIONS NO LONGER EXISTS.
- 12. LOWERED LNAV/VNAV DA MINIMUMS FROM 2428 TO 2419. - NEW CONTROLLING OBSTACLE IN NEW EVALUATION.
- 13. LOWERED LNAV ZUPAT STEPDOWN FIX ALT FROM 3440 TO 3380. - FIX WAS MOVED.
- 14. LOWERED MSA MIN ALT FROM 5700 TO 5600. - NEW EVALUATION COMPLETE AND NEW CONT OBST.
- 15. RAISED CIRCLING CAT B MDA FROM 2800 TO 2820/HAT 680 TO 700 AND CAT C MDA FROM 2960 TO 2980/HAT 840 TO 860. - NEW CONTROLLING OBSTACLE FOUND IN NEW EVALUATION.
- 16. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 12 TO RNAV (GPS) RWY 13. - RUNWAY MAGVAR CHANGED FROM 6W TO 8W.
- 17. LOWERED LNAV CAT C VIS FROM 1 1/8SM TO 1SM. - AIRPORT ADDED ALS AND 20:1 PENETRATIONS NO LONGER EXISTS.
- 18. REMOVED CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. - 20:1 OBSTACLES HAVE BEEN MITIGATED. NOTAM FDC 8/4305 INCORPORATED.
- 19. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. AND ADDED RNP APCH TO PBN REQUIREMENTS - NEW DOCUMENTATION CRITERIA.
- 20. REMOVED SECONDARY ALTIMETER CHART NOTES - MOVED TO BACK OF -9 FOR RECORD KEEPING. KBCB IS ON WMSCR.
- 21. REMOVED CHART NOTE: PROCEDURE NA AT NIGHT FOR CAT C AIRCRAFT. - 20:1 PENETRATIONS NO LONGER EXISTS. INCORPORATED NOTAM FDC 8/4308.
- 22. CHANGED TDZE AND APT ELEV FROM 2113 AND 2132 TO 2119 AND 2120 RESPECTIVELY. - RUNWAY WAS EXTENDED AND REEVALUATED.
- 23.REMOVED THE FAHRENHEIT VALUES FROM THE UNCOMPENSATED BARO-VNAV CHART NOTE. - REFLECT CURRENT CRITERIA IAW 8260.19H 8-6-9 S.
- 24. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS, LNAV/VNAV ALL CATS, AND LNAV CATS A AND B. - ODALS INSTALLED FOR RWY.



**AIRPORT**

VIRGINIA TECH/MONTGOMERY  
EXECUTIVE

**AIRPORT ID**

KBCB

**PROCEDURE NAME**

RNAV (GPS) RWY 13

**ORIGINAL/AMENDMENT**

3

**CITY**

BLACKSBURG

**STATE**

VA

**COORDINATED WITH:**

**A4A** ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, ROA APP CON, AMGR, VA DOT, ATA

**FLIGHT CHECKED BY**

PENDING

*Digitally signed by*

**JOHN BORDY**

**OFFICE**

**DATE**

Jun 01, 2020

*Digitally signed by*

**JOHN BORDY**

**OFFICE**

AJV-A422

**DATE**

02/12/2020

**DEVELOPED BY**

JOHN BORDY (ANDRE TUCKER)

*Digitally signed by*

**JOHN BORDY**

Jun 01, 2020

**OFFICE**

AJV-A420

**DATE**

**TITLE**

MANAGER

**APPROVED BY**

MARLON ROBINSON

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBCB
RUNWAY	RW13
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	371246.2105N
LTP/FTP LONGITUDE	0802513.7670W
LTP/FTP ELLIPSOIDAL HEIGHT	+06140
FPAP LATITUDE	371205.4570N
FPAP LONGITUDE	0802334.5515W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.44
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	00A85E5F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+06459
FPAP ORTHOMETRIC HEIGHT	+06459

