

**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 31	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> BLACKSBURG	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 2120	<u>TDZE</u> 2120	<u>SUPERSEDED</u> RNAV (GPS) RWY 30	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 12/10/2015	<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		KINIW		TF	FB	1.00	061.25	11.52	5700
KINIW		ZASNO		TF	FO	1.00	061.37	11.52	5400
TABER	IAF	ZASNO	NOPT	TF	FB	1.00	310.69	6.18	5400
ZASNO	IF/IAF	OSMSS		TF	FB	1.00	305.33	4.38	4900
OSMSS		CABID		TF	FB	1.00	305.28	2.54	4200
CABID	FAF	RW31	MAP	TF	FO	0.30	305.25	6.38	
RW31	MAP	2412 MSL		CA			305.25		
2412 MSL		HAWTO		DF	FO	1.00			5900

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5900 DIRECT HAWTO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5900.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
6
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD SE ZASNO, RT, 305.33 INBOUND, 5400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 305.25 FAF: CABID DIST FAF TO MAP: 6.38 DIST FAF TO THLD: 6.38

4. MIN ALT: ZASNO 5400, OSMSS 4900, CABID 4200

5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 292 HAT: 0.76 GS ANT: MM: IM:

6. MIN GP INCPT: 4200 GP ALT AT FAF : CABID 4200 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS NOT CLEAR 20:1: IS CLEAR TCH: 50.0

8. MSA FROM: RW31 5600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 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 TABER ON V136-470 EASTBOUND AND V103 SOUTHBOUND.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 125.03 INBOUND.
CHART FAS OBST: 2459 TREE 371208N/0802259W.
CHART VDP AT 1.78 NM TO RW31*
*LNAV ONLY.
WAAS CHANNEL # 86743
REFERENCE PATH ID: W31A
CHART CIRCLING ICON.
LTP HAE: 614.1 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	2412	7/8	292	2412	7/8	292	2412	7/8	292		NA				
LNAV/VNAV DA	2740	1 3/4	620	2740	1 3/4	620	2740	1 3/4	620		NA				
LNAV MDA	2740	1	620	2740	1	620	2740	1 3/4	620		NA				
CIRCLING	2760	1	640	2820	1	700	2980	2 1/2	860		NA				

QUALITY
6
CHECKED

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 30 TO RNAV (GPS) 31. - RWY NUMBER CHANGE DUE TO MAGVAR CHANGE.
2. ADDED LPV AND LNAV/VNAV MINIMUMS. - FPT REQUEST DUE TO OBSTACLES MITIGATION AND VGS IS NOW CLEAR
3. REMOVED JEXOV INITIAL. - JEXOV FIX WILL NOT EXIST DUE TO FUTURE VOR DECOMMISSIONS AND FPT REQUEST.
4. REMOVED PSK VORTAC AS MISSED APPROACH HOLDING FIX AND REPLACED WITH HAWTO FIX. - PSK VORTAC WILL BE DECOMMISSIONED IN FUTURE.
5. RAISED TABER INITIAL MIN ALT FROM 4800 TO 5400. - NEW EVALUATION COMPLETED AND HOLD-IN-LIEU ADDED AT ZASNO FIX WITH MIN ALT OF 5400.
6. CHANGED ACASU FIX NAME TO OSMSS FIX. - AIRPORT AND FPT REQUEST.
7. LOWERED MSA MIN ALT FROM 5700 TO 5600. - NEW EVALUATION COMPLETED AND YIELDS LOWER CONTROLLING OBST.
8. CHANGED FAC FROM 303.26 TO 305.25. - MAGVAR CHANGE AND RUNWAY TRUE COURSE CHANGE.
9. CHANGED GPA FROM 3.25 TO 3.0. - RUNWAY THRESHOLD COORDINATES CHANGES.
10. ADDED HOLD IN LIEU AT ZANO FIX WITH MIN ALT OF 5400. - FOR ACCOMMODATION OF FEEDER FROM SOUTHWEST.
11. 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 EVAL AND MAP STUDY COMPLETE YIELDING NEW CONTROLLING OBSTACLES.
12. CHANGED VDP FROM 1.50NM TO 1.78NM TO RW31. - RUNWAY LOCATION, GPA,TCH, AND MINIMUMS HAVE CHANGED.
13. REMOVED CHART NOTE: DME/DME RNP-0.3 NA. AND ADDED RNP APCH PBN REQUIREMENTS NOTE. - UPDATED TO REFLECT CURRENT CRITERIA.
14. ADDED FEEDER FROM WILIZ FIX TO KINIW FIX. - ACCOMMODATE PROCEDURE ENTRY FROM SOUTHWEST.
15. ADDED FEEDER FROM KINIW FIX TO ZASNO FIX. - ACCOMMODATE PROCEDURE ENTRY FROM SOUTHWEST.
16. LOWERED LNAV MINIMUMS FROM 2760 TO 2740. - NEW SURVEY AND EVALUATION COMPLETED/CONTROLLING OBSTACLE CHANGED FROM 2499 TREE TO 2459 TREE.
17. REMOVED CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. - VGSI MOVED AND ADJUSTED TO PROCEDURE DESIGN DURING RUNWAY CONSTRUCTION.
18. UPDATED CHART NOTE: ADDED "RWY 31" TO BEGINNING OF "HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
19. ADDED STANDARD - CAT C 900-2 1/2 TO ALT MINS. - NEW EVAL COMPLETED.
20. ADDED UNCOMPENSATED BARO-VNAV NOTE. - ADDED LNAV/VNAV LINE OF MINIMA.

COORDINATED WITH:

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

FLIGHT CHECKED BY
PENDING

Digitally signed by
JOHN BORDY
Jun 01, 2020

OFFICE
DATE

DEVELOPED BY
JOHN BORDY (ANDRE TUCKER)

Digitally signed by
JOHN BORDY
Jun 01, 2020

OFFICE
DATE
AJV-A422 02/12/2020

APPROVED BY
Digitally signed by
MARLON ROBINSON
JOHN BORDY
Jun 01, 2020

OFFICE
DATE
TITLE
AJV-A420
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBCB
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	371221.3705N
LTP/FTP LONGITUDE	0802413.2830W
LTP/FTP ELLIPSOIDAL HEIGHT	+06141
FPAP LATITUDE	371302.1145N
FPAP LONGITUDE	0802552.5100W
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	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	D829451E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+06460
FPAP ORTHOMETRIC HEIGHT	+06460

