

**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> BTB	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> BURLINGTON	<u>STATE</u> VT
<u>AIRPORT ELEVATION</u> 335	<u>TDZE</u> 334	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 33	<u>DATED</u> 11/03/2022	<u>MAG VAR</u> 15W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ORIGINAL/AMENDMENT</u> ORIG-C	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2005
		<u>ACTUAL EFFECTIVE DATE</u> 31 OCTOBER 2024	<u>CANCEL/SUSPEND</u>	

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 236/30 CW 056/30	NOPT	RASLE	IF/IAF	6300
2. 056/30 CW 146/30		RASLE	IF/IAF	6300
3. 146/30 CW 236/30		146/10 CW 236/10		6600
4. 146/10 CW 236/10		VAMPY	IAF	6300

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>
VAMPY	IAF	RASLE	NOPT	TF	FB	1.00	236.19	10.55	6300
RASLE	IF/IAF	BOBOH		TF	FB	1.00	326.08	5.00	5400
BOBOH		PAKOY		TF	FB	1.00	326.02	2.20	4700
PAKOY		EHIKO		TF	FB	1.00	325.99	2.93	3800
EHIKO	FAF	RW33	MAP	TF	FO	0.30	325.95	10.04	
RW33	MAP	584 MSL		CA	FB		325.95		
584 MSL		STAEV		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT STAEV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
35
CHECKED

PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD SE RASLE, RT, 326.08 INBOUND, 6300 FT. IN LIEU OF PT (IAF), MAX 10000.														
3.	FAC:	325.95	FAF:	EHIKO	DIST FAF TO MAP:	10.04	DIST FAF TO THLD:	10.04							
4.	MIN ALT:	RASLE 6300, BOBOH 5400, PAKOY 4700, EHIKO 3800													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		275 HAT:	0.57	GS ANT:				
6.	MIN GP INCPT:	3800	GP ALT AT PFAF:	EHIKO 3800			OM:		MM:		IM:				
7.	GP ANGLE:	3.20	34:1:	IS NOT CLEAR	20:1:	IS CLEAR	TCH:	55.2							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 37°C.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 145.67 INBOUND.
FAS OBST: 1540 AAO 442227N/0725841W.
CHART R-6501 A & B.
CHART VDP AT 4.69 NM TO RW33.
WAAS CHANNEL # 65812
REFERENCE PATH ID: W33A
LTP HAE: 73 M

MINIMUMS:

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

ALTERNATE: NA ☐ CAT A, B, C, D, E 1700-5

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	584	4000	250	584	4000	250	584	4000	250	584	4000	250	584	4000	250
LNAV/VNAV DA	1782	5	1448	1782	5	1448	1782	5	1448	1782	5	1448	1782	5	1448
LNAV MDA	2000	1 1/4	1666	2000	1 1/4	1666	2000	3	1666	2000	3	1666	2000	3	1666



CHANGES - REASONS

1. TAA 1: CHANGED FROM “236/30 CW 056/30, NOPT, JANUD, IF/IAF, 6000” TO “ 236/30 CW 056/30, NOPT, RASLE, IF/IAF, 6300” - FIX JANUD MOVED AND WAS RENAMED/NEW TAA OBSTACLE.
2. TAA 2: CHANGED FROM “056/30 CW 146/30, DONGY, IAF, 6400” TO “056/30 CW 146/30, RASLE, IF/IAF, 6300” – REMOVED IAF SEGMENT FROM DONGY PER ATC/ENVIRONMENTAL TO AVOID WILDLIFE REFUGE.
3. TAA 3: CHANGED FROM “146/30 CW 236/30, 146/5 CW 236/5, 6700” TO “146/30 CW 236/30, 146/10 CW 236/10, 6600” – IAF SEGMENT EXTENDED FROM 5 NM TO 10 NM/NEW TAA OBSTACLE.
4. TAA 4: CHANGED FROM “146/5 CW 236/5, ALOKY, IAF, 6000” TO “146/10 CW 236/10, VAMPY, IAF, 6600” – IAF MOVED MORE THAN 1 NM/RENAMED.
5. TERMINAL ROUTES: SEGMENT DONGY TO JANUD, REMOVED SEGMENT - REMOVED IAF SEGMENT FROM DONGY PER ATC/ENVIRONMENTAL TO AVOID WILDLIFE REFUGE.
6. TERMINAL ROUTES: SEGMENT ALOKY TO JANUD, CHANGED FROM “ALOKY TO JANUD” TO “VAMPY TO RASLE”, COURSE CHANGED FROM “236.14” TO “236.19”, DISTANCE CHANGED FROM “6.00” TO “10.55”, AND ALTITUDE CHANGED FROM 6000 TO 6300 – FIXES ALOKY AND JANUD MOVED AND WERE RENAMED TO MEET RNAV SEGMENT LENGTH REQUIREMENTS/NEW CONTROLLING OBSTACLES.
7. TERMINAL ROUTES: SEGMENT JANUD TO NIDUQ, CHANGED FROM “JANUD TO NIDUQ” TO “RASLE TO BOBOH”, AND CHANGED DISTANCE FROM “4.95” TO “5.00” – FIXES JANUD AND NIDUQ WERE MOVED AND RENAMED TO MEET SEGMENT LENGTH CRITERIA.
8. TERMINAL ROUTES: SEGMENT NIDUQ TO HONIB, CHANGED FROM “NIDUQ TO HONIB” TO “BOBOH TO PAKOY” AND COURSE CHANGED FROM “325.99” TO “326.02”, AND ALTITUDE CHANGED FROM “4800” TO “4700” – FIXES NIDUQ AND HONIB MOVED AND WERE RENAMED TO MEET COURSE ALIGNMENT CRITERIA/LOWERED ALTITUDE TO PRECLUDE EXCESSIVE DG WAIVER.
9. TERMINAL ROUTES: SEGMENT HONIB TO EHIKO, CHANGED FROM “HONIB TO EHIKO” TO “PAKOY TO EHIKO”, CHANGED COURSE FROM “326” TO “325.99”, CHANGED DISTANCE FROM “3.19” TO “2.93” – FIX HONIB MOVED AND WAS RENAMED AND FIX EHIKO MOVED TO MEET COURSE ALIGNMENT CRITERIA, TO MAINTAIN GPA AND MINIMIZE DESCENT GRADIENT.
10. TERMINAL ROUTES: SEGMENT EHIKO TO RW33, CHANGED DISTANCE FROM “9.78” TO “10.04” – FIX EHIKO MOVED ON THE ILS TO MAINTAIN COINCIDENT GLIDEPATH AND VGSI DESCENT ANGLES.
11. PROFILE LINE 2: CHANGED FROM “HOLD SE JANUD, RT, 326.08 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000” TO “HOLD SE RASLE, RT, 326.08 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.” – RENAMED FIX JANUD TO RASLE.
12. PROFILE LINE 3: CHANGED DIST FAF TO MAP AND DIST FAF TO THLD FROM “9.78” TO “10.04” – FAF EHIKO MOVED.
13. PROFILE LINE 4: MIN ALT CHANGED FROM “JANUD 6000, NIDUQ 5400, HONIB 4800, EHIKO 3800” TO “JANUD 6300, RASLE 6300, BOBOH 5400, PAKOY 4800, EHIKO 3800” – FAF AND SDFS MOVED AND WERE RENAMED FOR COURSE ALIGNMENT.
14. PROFILE LINE 5: CHANGED FROM “250 HAT 0.56” TO “275 HAT: 0.57” – NEW EVALUATION.
15. PROFILE LINE 7: GP ANGLE CHANGED FROM “3.28” TO 3.20” – ALIGNED WITH VGSI AND ALLOWS FAF AT FIX EHIKO TO MATCH ILS RWY 33.
16. NOTES: CHANGED FROM “CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 37°C” – NEW TEMP CALCULATIONS.
17. NOTES: CHANGED FROM “RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED” TO “RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED” – VIS IS RVR.
18. ADDITIONAL FLIGHT DATA: FAS OBSTACLE CHANGED FROM “CHART FAS OBST: 1559 TREE 442227N/0725840W” TO “FAS OBST: 1540 AAO 442227N/0725841W” – NEW CONTROLLING OBSTACLE.
19. CRC REMAINDER CHANGED FROM “C3BEFCCB” TO “78F37CF3” – FPAP CHANGED FROM “442850.4400N/0730957.1800W” TO “442858.1985N/0731009.7330W”, GPA CHANGED FROM “3.28” TO “3.20”, COURSE WIDTH AT THRESHOLD CHANGED FROM “106.50” TO “106.75”.

COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

☐

NBAA

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OTHER: ZBW, BTV APP CON, BTV ATCT, ARPT MGR, USAF/ANG

FLIGHT CHECKED BY

DANIEL KIRBY

Digitally signed by
JOSEPH L ZEDER
Sep 06, 2024

OFFICE

FPO

DATE

08/14/2024

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AJV-A432

DATE

06/22/2024

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CASIMIR L. TABAKA

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JOSEPH L ZEDER
Sep 06, 2024

OFFICE

AJV-A432

DATE

TITLE
MANAGER



AIRPORT ID
BTV

PROCEDURE NAME
RNAV (GPS) Z RWY 33

ORIGINAL/AMENDMENT
1

CITY
BURLINGTON

STATE
VT

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBTV
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	442759.9565N
LTP/FTP LONGITUDE	0730835.5625W
LTP/FTP ELLIPSOIDAL HEIGHT	+00730
FPAP LATITUDE	442858.1985N
FPAP LONGITUDE	0731009.7330W
THRESHOLD CROSSING HEIGHT (TCH)	00055.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0368
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER	78F37CF3
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ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01019
FPAP ORTHOMETRIC HEIGHT	+01019

QUALITY
35
CHECKED