

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> BLI	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 16	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BELLINGHAM	<u>STATE</u> WA
<u>AIRPORT ELEVATION</u> 171	<u>TDZE</u> 163	<u>SUPERSEDED ORIGINAL/AMENDMENT</u> RNAV (RNP) Z RWY 16 1A	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 16E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 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>
UCAKI	IAF	CAFFS		TF	FB	1.00	352.51	3.29	2400
TECUV	IAF	APDON		TF	FB	1.00	053.99	9.35	2000
CAFFS	IF	CUSEL		TF	FB	1.00	352.70	3.25	2000
CUSEL		HONUUV		RF	FB	1.00	(2.01 NM RADIUS CW (CFFVP))	2.40	2000
HONUUV		WUGUT		RF	FB	1.00	(2.01 NM RADIUS CW (CFFVP))	3.60	2000
SECOG	IF	WUGUT		TF	FB	1.00	163.86	6.00	2000
APDON	IF	HONUUV		TF	FB	1.00	061.08	5.92	2000
WUGUT	PFAF	RW16	MAP	TF	FO	0.30	163.84	5.61	
RW16	MAP	700 MSL		CA			163.84		700
700 MSL		TECUV		DF	FO	1.00			2000

MISSED APPROACH

MAP:

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT TECUV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT WUGUT
- FAC: 163.84 PFAF: WUGUT DIST FAF TO MAP: DIST FAF TO THLD:
- MIN ALT: WUGUT 2000
- DIST TO THLD FROM PFAF: 5.61 MM: IM: 150 HAT: 333 HAT: 0.88 GS ANT:
- MIN GP INCPT: 2000 GP ALT AT PFAF: WUGUT 2000 OM: MM: IM:
- GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 51.4
- MSA FROM: RW16 12000



PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM CUSUL, HONUUV: RF.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -10°C OR ABOVE 54°C.
 CHART AT OR ABOVE 4000 AT UCAKI.
 CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
 CHART PLANVIEW NOTE ADJACENT TO IAF UCAKI: RF REQUIRED.
 CHART PLANVIEW NOTE ADJACENT TO IAF TECUV: RF REQUIRED.

CHART SPEED ICON IN PLANVIEW AT CUSEL: MAX 200 KIAS.
 CHART SPEED ICON IN PLANVIEW AT HONUUV: MAX 200 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 135.90 INBOUND.

MINIMUMS:

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

ALTERNATE: NA STANDARD

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
AUTHORIZATION REQUIRED															
RNP 0.30 DA	496	2600	333	496	2600	333	496	2600	333	496	2600	333			

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED "UCAKI TO CUSEL" SEGMENT TO "UCAKI TO CAFFS" – CAFFS ADDED PER ATC REQUEST PER CRITERIA.
2. TERMINAL ROUTES: ADDED CAFFS TO CUSEL SEGMENT – PER ATC REQUEST.
3. TERMINAL ROUTES: CHANGED SECOFG TO WUGUT COURSE FROM "163.85" TO "163.86" – WUGUT MOVED S 18.6 FEET.
4. TERMINAL ROUTES: CHANGED WUGUT TO RW16 COURSE FROM "163.85" TO "163.84" - WUGUT MOVED S 18.6 FEET.
5. PROFILE LINE 3: CHANGED FAC FROM "163.85" TO "163.84" - WUGUT MOVED S 18.6 FEET.
6. PROFILE LINE 5: CHANGED "DIST TO THLD FROM OM" TO "DIST TO THLD FROM PFAF", CHANGED "320 HAT: 0.84" TO "333 HAT: 0.88" – CURRENT DOCUMENTATION STANDARDS, REMOVED .27 MINIMUMS.
7. NOTES: ADDED "CHART AT OR ABOVE 4000 AT UCAKI" – UCAKI TRANSITION CONNECTED TO RNAV STAR.
8. NOTES: REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TECUV ON V495 SOUTHWEST BOUND" – AIRWAY NO LONGER PUBLISHED.
9. NOTES: CHANGED "CHART SPEED ICON IN PLANVIEW AT CUSEL: MAX 180 KIAS" TO "CHART SPEED ICON IN PLANVIEW AT CUSEL: MAX 200 KIAS" – PROCEDURE REDESIGNED PER ATC REQUEST.
10. NOTES: CHANGED "CHART SPEED ICON IN PLANVIEW AT HONUUV: MAX 180 KIAS" TO "CHART SPEED ICON IN PLANVIEW AT HONUUV: MAX 200 KIAS" PROCEDURE REDEIGNED PER ATC REQUEST.
11. NOTES: REMOVED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.27 ALL CATS VISIBILITY TO RVR 4500, INCREASE RNP 0.30 ALL CATS VISIBILITY TO RVR 6000" – REMOVED MINIMA SET.
12. ADDITIONAL FLIGHT DATA: REMOVED "ROUTE TYPE: A, H, ROUTE TYPE QUALIFIER 1: F, ROUTE TYPE QUALIFIER 2: S" – CURRENT DOCUMENTATION STANDARDS.
13. MINIMUMS: REMOVED "RNP 0.27 DA SET" – PER ATC REQUEST.
14. MINIMUMS: LOWERED RNP 0.30 DA/HAT/VISIBILITY FROM "580/414/4500" TO "496/333/2600" – NEW OBSTACLE EVALUATION.

10/02/25: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/30/25.

1. PBN REQUIREMENTS NOTE: CHANGED FROM "RNP AR APCH." TO "RNP AR APCH - GPS. AUTHORIZATION REQUIRED. FROM CUSUL, HONUUV: RF."



AIRPORT ID
BLI

PROCEDURE NAME
RNAV (RNP) Z RWY 16

ORIGINAL/AMENDMENT
2

CITY
BELLINGHAM

STATE
WA

COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

OTHER: YYJ APP CON, ZSE, BLI ATCT, AMGR, WFPT

FLIGHT CHECKED BY
THOMAS EDWARD MOLOKIE

Digitally signed by
CASIMIR L TABAKA
Oct 02, 2025

OFFICE
FIOG

DATE
09/09/2025

DEVELOPED BY
CASIMIR L. TABAKA (ROBERT A. SWINSON)

Digitally signed by
JACOB H CLARK
Oct 02, 2025

OFFICE
AJV-A432

DATE
05/30/2025

APPROVED BY
CASIMIR L. TABAKA

Digitally signed by
CASIMIR L TABAKA
Oct 02, 2025

OFFICE
AJV-A432

DATE
10/23/2025

TITLE
MANAGER



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> BLI	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 16	<u>AMDT NO.</u> 2	<u>CITY</u> BELLINGHAM	<u>STATE</u> WA	<u>AIRPORT ELEVATION</u> 171	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL
FROM UCAKI **TO** CAFFS

RNP DISTANCE PAT MAP HAT HMAS
1.00 3.29

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	485139.00N/1223721.00W	581	215	8	4B	1000				AC8 AT811	2400
TERRAIN	485033.00N/1224109.00W	295 (300)								AS1500	1800

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL
FROM TECUV **TO** APDON

RNP DISTANCE PAT MAP HAT HMAS
1.00 9.35

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
REFINERY (53-000262)	485307.00N/1224418.00W	408	100	20	3C	1000				AC20 AT572	2000
TERRAIN	485330.00N/1224721.00W	170 (200)								AS1500	1700

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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2

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WA

AIRPORT ELEVATION
171

FACILITY
RNAV

INTERMEDIATE

FROM
CAFFS **TO**
CUSEL

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 3.25

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	485148.00N/1223730.00W	584	215	8	4B	500				AC8 AT908	2000
TERRAIN	485148.00N/1223730.00W	383 (400)								AS1500	1900

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:

INTERMEDIATE: STEPDOWN

FROM
CUSEL **TO**
HONUUV

RNP **DISTANCE** **PAT** **MAP** **HAT** **HMAS**
1.00 2.40

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	485309.00N/1223845.00W	575	215	8	4B	500				AC8 AT917	2000
TERRAIN	485406.00N/1223848.00W	196 (200)								AS1500	1700

COMPUTATIONS

RF SEGMENT **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**
CUSEL-HONUUV 3500 200 216.19 3329.18 38.38 2.01 25.17 0.00 0.00 (CFFVP)/2.4 NM

SEGMENT REMARKS:



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AIRPORT ELEVATION
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FACILITY
RNAV

INTERMEDIATE: STEPDOWN

FROM
HONUJ **TO**
WUGUT

RNP 1.00 **DISTANCE** 3.60 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	485742.00N/1223609.00W	315	215	8	4B	500				AC8 AT1177	2000
TERRAIN	485727.00N/1223542.00W	108 (100)								AS1500	1600

COMPUTATIONS

RF SEGMENT **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**
HONUJ-WUGUT 2900 200 214.23 2728.82 22.37 2.01 22.09 0.00 0.00 (CFFVP)/3.6 NM

SEGMENT REMARKS:

INTERMEDIATE

FROM
SECOG **TO**
WUGUT

RNP 1.00 **DISTANCE** 6.00 **PAT** **MAP** **HAT** **HMAS**

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	490039.00N/1222915.00W	519	215	8	4B	500				AC8 AT973	2000
TERRAIN	485942.00N/1223312.00W	272 (300)								AS1500	1800

COMPUTATIONS

ALT **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

SEGMENT REMARKS:



AIRPORT ID
BLI

PROCEDURE NAME
RNAV (RNP) Z RWY 16

AMDT NO.
2

CITY
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STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

INTERMEDIATE

FROM
APDON

TO
HONUV

RNP
1.00

DISTANCE
5.92

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	485312.00N/1223854.00W	571	215	8	4B	500				AC8 AT921	2000
TERRAIN	485312.00N/1223854.00W	370 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL

FROM
WUGUT

TO
RW16

RNP
0.30

DISTANCE
5.61

PAT

MAP
DA

HAT
333

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (53-077432)	484846.77N/1223217.23W	236	20	3	1A		21.15:1			AC3	496

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



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2

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STATE
WA

AIRPORT ELEVATION
171

FACILITY
RNAV

MISSED APPROACH: LEVEL SURFACE

FROM
DA **TO**
TECUV

RNP
0.30-1.00

DISTANCE

PAT

MAP

HAT

HMAS
335

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				2000
AAO	485030.00N/1224106.00W	496	215	8	4B	1000					1500
TERRAIN	485033.00N/1224109.00W	295 (300)								AS1500	1800

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING ALL CATS CAT A CAT B CAT C CAT D CAT E NOT AUTHORIZED

MSA

CENTER
RW16 **RADIUS**
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	AAO	484636.00N/1214915.00W	077	28.5	10971	215	8	4B	1000			12000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZSE ARTCC, BLI TOWER, VICTORIA APP CON

WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	BLI	24	BLI		Y	0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	WMSCR	ADJUSTMENTS
ASOS	FHR	24	FHR	25.24	Y	67

WX REMARKS:

BACK-UP ALTIMETER IS AUTOMATICALLY PULLED FROM AIRNAV. NOT USED FOR RNP PROCEDURES.



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AIRPORT ELEVATION
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FACILITY
RNAV

PRIMARY NAVAID

MONITOR POINT

HRS OPERATION

CAT

APPROACH AND RUNWAY LIGHTING SYSTEM	RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW34 - REIL (PCL), HIRL (PCL), PAPI-4L	NPI-G	ROLL OUT
RW16 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	APPROACH

GLIDESLOPE ANGLE
3.00

ELEV RWY THRESHOLD
163.4

TCH
51.4

ELEV GS ANTENNA

DISTANCE FROM RWY

VGSI ANGLE
3.00

TCH
50.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

ON CENTERLINE

FT FROM CENTERLINE

CRITICAL TEMPERATURES

CRITICAL LOW

-10C

CRITICAL HIGH

+54C

ACT

-10C

APT ISA

+14.66C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2020-2024).
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 957 HIGH TEMP 1262.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

40 FT VEGETATION USED PER FPT.



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FACILITY
RNAV

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.09
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	179.84
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	4.66
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	179.84
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD COORDINATES (IF STR-IN)	484806.74N/1223215.20W
ARP COORDINATES	484733.70N/1223215.10W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 34 DISTANCE 0.55 NM
FAF COORDINATES	485342.83N/1223216.61W
FIX NAME COORDINATES	

REMARKS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
CASIMIR L. TABAKA (ROBERT A. SWINSON)	AJV-A432	05/30/2025	AERONAUTICAL INFORMATION SPECIALIST

