

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

AIRPORT	AIRPORT ID	CITY	STATE	AMDT NO	ACTUAL EFFECTIVE DATE
BREMERTON NATIONAL	KPWT	BREMERTON	WA	6	26 MARCH 2020

TAKEOFF MINIMUMS:

RWY 20: STANDARD.
RWY 2: 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 407 FT PER NM TO 700.

TEXTUAL DEPARTURE PROCEDURES:

RWY 2: CLIMBING RIGHT TURN TO 4000 ON HEADING 220 AND OLM VORTAC R-346 TO CARRO INT/OLM 19.43 DME, THENCE ...
RWY 20: CLIMB ON HEADING 196.77 TO 4000 AND OLM VORTAC R-346 TO CARRO INT/OLM 19.43 DME, THENCE ...
... CONTINUE CLIMB IN HOLD (HOLD N, RT, 166.32 INBOUND) TO 4000 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2: POLES BEGINNING 3 FT FROM DER, 258 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/442 FT MSL. NAVAID 10 FT FROM DER, 64 FT RIGHT OF CENTERLINE, 2 FT AGL/442 FT MSL. SIGN 38 FT FROM DER, 249 FT LEFT OF CENTERLINE, 3 FT AGL/444 FT MSL. VEGETATION 380 FT FROM DER, 521 FT LEFT OF CENTERLINE, 456 FT MSL. TREES BEGINNING 959 FT FROM DER, 709 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/497 FT MSL. TREES BEGINNING 1125 FT FROM DER, 595 FT LEFT OF CENTERLINE, UP TO 78 FT AGL/518 FT MSL. TREES BEGINNING 1169 FT FROM DER, 695 FT RIGHT OF CENTERLINE, UP TO 72 FT AGL/525 FT MSL. TREES, WALL BEGINNING 1214 FT FROM DER, 770 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/537 FT MSL. TREES BEGINNING 1386 FT FROM DER, 572 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/542 FT MSL. TREES BEGINNING 1917 FT FROM DER, 798 FT LEFT OF CENTERLINE, UP TO 111 FT AGL/543 FT MSL. TREES BEGINNING 1937 FT FROM DER, 765 FT LEFT OF CENTERLINE, UP TO 131 FT AGL/566 FT MSL. TREES BEGINNING 2238 FT FROM DER, 793 FT LEFT OF CENTERLINE, UP TO 158 FT AGL/591 FT MSL. TREES BEGINNING 2798 FT FROM DER, 100 FT LEFT OF CENTERLINE, UP TO 168 FT AGL/593 FT MSL. TREES BEGINNING 3081 FT FROM DER, 1176 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/579 FT MSL. TREES BEGINNING 3102 FT FROM DER, 157 FT RIGHT OF CENTERLINE, UP TO 599 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 2413 FT RIGHT OF CENTERLINE, UP TO 144 FT AGL/631 FT MSL. TREES BEGINNING 2.4 NM FROM DER, 4186 FT LEFT OF CENTERLINE, UP TO 138 FT AGL/884 FT MSL. TREES BEGINNING 2.4 NM FROM DER, 4295 FT LEFT OF CENTERLINE, UP TO 170 FT AGL/1020 FT MSL. TREES BEGINNING 2.4 NM FROM DER, 3978 FT LEFT OF CENTERLINE, UP TO 137 FT AGL/1077 FT MSL.

NOTE: RWY 20: VEGETATION BEGINNING 1 FT FROM DER, 457 FT LEFT OF CENTERLINE, UP TO 452 FT MSL. VEGETATION 140 FT FROM DER, 401 FT RIGHT OF CENTERLINE, 10 FT AGL/450 FT MSL. TREES, VEGETATION BEGINNING 177 FT FROM DER, 349 FT LEFT OF CENTERLINE, UP TO 471 FT MSL. TREES, VEGETATION BEGINNING 372 FT FROM DER, 224 FT RIGHT OF CENTERLINE, UP TO 489 FT MSL. TREES, VEGETATION BEGINNING 752 FT FROM DER, 549 FT LEFT OF CENTERLINE, UP TO 514 FT MSL. TREES BEGINNING 1329 FT FROM DER, 684 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/494 FT MSL. TREES BEGINNING 1712 FT FROM DER, 794 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/500 FT MSL. TREES BEGINNING 1719 FT FROM DER, 302 FT LEFT OF CENTERLINE, UP TO 66 FT AGL/534 FT MSL. TREES BEGINNING 1754 FT FROM DER, 700 FT RIGHT OF CENTERLINE, UP TO 51 FT AGL/505 FT MSL. TREES BEGINNING 1904 FT FROM DER, 767 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/507 FT MSL. TREES BEGINNING 2410 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 66 FT AGL/509 FT MSL. TREES BEGINNING 2519 FT FROM DER, 150 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/513 FT MSL. TREES BEGINNING 2974 FT FROM DER, 69 FT RIGHT OF CENTERLINE, UP TO 108 FT AGL/552 FT MSL. TREES BEGINNING 3135 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 114 FT AGL/559 FT MSL. TREES BEGINNING 3266 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 120 FT AGL/560 FT MSL. TREES BEGINNING 3411 FT FROM DER, 30 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/540 FT MSL. TREES BEGINNING 3417 FT FROM DER, 119 FT LEFT OF CENTERLINE, UP TO 112 FT AGL/545 FT MSL. TREES BEGINNING 4030 FT FROM DER, 578 FT LEFT OF CENTERLINE, UP TO 127 FT AGL/547 FT MSL. TREES BEGINNING 4435 FT FROM DER, 843 FT LEFT OF CENTERLINE, UP TO 122 FT AGL/575 FT MSL.

CONTROLLING OBSTACLES:

RWY 2: 599 FT MSL TREE 473009.89N/1224452.35W (CLIMB GRADIENT), 631 FT MSL TREE 473036.94N/1224403.04W (CLIMB-TO ALTITUDE, CEILING, VISIBILITY).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 2, 20: 2399 FT MSL TOWER 473253.00N/1224827.00W, 7988 FT MSL AAO 474848.00N/1231400.00W.

REMARKS:

FLIGHT INSPECTED BY	<i>Digitally signed by</i> DAVID DANNER	OFFICE	DATE	
ROBERT RICHARDSON	Jan 10, 2020	FICO	1/8/20	
DEVELOPED BY	<i>Digitally signed by</i> DAVID DANNER	OFFICE	DATE	
DAVID DANNER (CHARLES BROOKS)	Jan 10, 2020	AJV-A421	11/21/2019	
APPROVED BY	<i>Digitally signed by</i> DAVID DANNER	OFFICE	DATE	TITLE
MARLON ROBINSON	Jan 10, 2020	AJV-A420		MANAGER



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BREMERTON NATIONAL	KPWT	BREMERTON	WA	6	26 MARCH 2020

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA **OTHER:** ZSE, AMGR, WA AERO, SEA APP CON

CHANGES - REASONS:

1. UPDATED RWY 2 AND RWY 20 TAKEOFF OBSTACLE NOTES - NEW AIRPORT SURVEYS.
2. RWY 2 TAKEOFF MINS CHANGED FROM 300-1 OR STANDARD WITH MINIMUM CLIMB OF 402 FT PER NM TO 700 TO 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 407 FT PER NM TO 700. - NEW CONTROLLING OBSTACLE.
3. CHANGED RWY 20 MINIMUMS FROM 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 495 FT PER NM TO 700 TO READ STANDARD. - NO PENETRATIONS DUE TO NEW RUNWAY SURVEY.
4. UPDATED RWY 2 CONTROLLING OBSTACLE DATA. - NEW RUNWAY SURVEY DATA.
5. REMOVED RWY 20 CONTROLLING OBSTACLE DATA. - NO PENETRATIONS.
6. CHANGED TEXTUAL DEPARTURE PROCEDURE RWY 20 FROM "CLIMB HEADING 196.78...." TO "CLIMB ON HEADING 196.77. - NEW AIRNAV DATA.

