

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** WATTR **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1  
**LATITUDE/LONGITUDE:** 480821.35N/1225627.97W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	SEATTLE	SEA	VORTAC	VH	310.08	329.08	49.38	49.38		5400	17500
2	PENN COVE	CVV	VOR/DME	VL	215.04	234.04	10.76	10.76		5400	17500
3	FRIDAY HARBOR	FHR	NDB	MH	154.55	171.55		22.63		5400	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SEA	VORTAC	R-310	50	5400	14900

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW		WP	307.08	127.08	R		5	5400	10000	6	16
2	NW		WP	313.08	133.08	R		5	5400	10000	6	16

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (53-020390)	480058.67N/1225539.05W	2337	1A
1	310	AAO	475742.00N/1230400.00W	3626	4E
2	200	TOWER (53-020390)	480058.67N/1225539.05W	2337	1A
2	310	AAO	475742.00N/1230400.00W	3626	4E

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 9	KCLM	PORT ANGELES	WA (US)
2	RNAV (GPS) -A	0S9	PORT TOWNSEND	WA (US)

**REMARKS:**

SEATTLE (FAC 1) AND PENN COVE (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
 HOLDING PAT 1/2 OBSTACLE LOCATED 1.46 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1473 MSL.  
 C-I-H PAT 1/2 OBSTACLE LOCATED 1.26 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 2811 MSL.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL DP	LAAML (RNAV)			26WA	PORT ANGELES	WA (US)
SPECIAL DP	ROSFE (RNAV)			7WA2	PORT TOWNSEND	WA (US)
SPECIAL IAP	COPTER RNAV (GPS) 26			26WA	PORT ANGELES	WA (US)
SPECIAL IAP	COPTER RNAV (GPS) 17			7WA2	PORT TOWNSEND	WA (US)
DP	WATTR (RNAV)			KCLM	PORT ANGELES	WA (US)
EN ROUTE	T268					(US)
EN ROUTE	T487					(US)
IAP	NDB RWY 34	3		KFHR	FRIDAY HARBOR	WA (US)
IAP	RNAV (GPS) RWY 34			KFHR	FRIDAY HARBOR	WA (US)
IAP	RNAV (GPS) RWY 7			KOKH	OAK HARBOR	WA (US)
IAP	ILS OR LOC RWY 9			KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) RWY 27			KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) RWY 9		1	KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) -A		2	0S9	PORT TOWNSEND	WA (US)
OTHER	ZK547 (SPECIAL ROUTE)					(US)

**REQUIRED CHARTING:** DP, IAP, EN ROUTE LOW, SPECIAL IAP, SPECIAL DP, CONTROLLER LOW

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 20 **DATE OF REVISION:** 04/17/2025

**REASON FOR REVISION:**

1. AIRSPACE DOCKET: DELETED 23-AWP-47.
2. FIX MAKE-UP FACILITIES: DELETED FAC 2, ELWHA (CL) LOM.
3. FIX MAKE-UP FACILITIES: RENUMBERED PREVIOUS FAC 3 AND FAC 4 TO FAC 2 AND FAC 3.
4. EXPANDED SERVICE VOLUME (ESV): DELETED ESV FOR CL LOM.
5. HOLDING PATTERNS: DELETED PAT 1 (SEA VORTAC R-310.08).
6. HOLDING PATTERNS: RENUMBERED PREVIOUS PAT 2 AND 3 TO PAT 1 AND 2.
7. CONTROLLING OBSTRUCTIONS: DELETED PREVIOUS PAT 1 OBSTRUCTIONS.
8. CONTROLLING OBSTRUCTIONS: RENUMBERED PREVIOUS PAT 2 AND 3 OBSTRUCTIONS TO PAT 1 AND PAT 2.
9. PROCEDURES REQUIRING CLIMB-IN-HOLD: DELETED ILS OR LOC RWY 9 AT KCLM.
10. REMARKS: UPDATED "SEATTLE (FAC 1) AND PENN COVE (FAC 3) USED TO ESTABLISH FIX COORDINATES" TO "SEATTLE (FAC 1) AND PENN COVE (FAC 2) USED TO ESTABLISH FIX COORDINATES."
11. REMARKS: DELETED "HOLDING PAT 1 OBSTACLE LOCATED 1.08 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1589 MSL."
12. REMARKS: DELETED "C-I-H PAT 1 OBSTACLE LOCATED 1.97 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 3243 MSL."
13. REMARKS: UPDATED "HOLDING PAT 2/3 OBSTACLE LOCATED 1.46 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1473 MSL" TO "HOLDING PAT 1/2 OBSTACLE LOCATED 1.46 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1473 MSL."
14. REMARKS: UPDATED "C-I-H PAT 2/3 OBSTACLE LOCATED 1.26 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 2811 MSL" TO "C-I-H PAT 1/2 OBSTACLE LOCATED 1.26 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 2811 MSL."
15. FIX USE: DP WATTR AT KCLM, ADDED "(RNAV)" TO USE TITLE AND DELETED FAC 1 AND FAC 2.
16. FIX USE: NDB RWY 34 AT KFHR, UPDATED FAC 4 TO FAC 3.
17. FIX USE: ILS OR LOC RWY 9 AT KCLM, DELETED "(ALT MA)" FROM USE TITLE, DELETED FAC 1 AND FAC 2, AND DELETED PAT 1.
18. FIX USE: RNAV (GPS) RWY 9 AT KCLM, UPDATED PAT 2 TO PAT 1.
19. FIX USE: RNAV (GPS)-A AT 0S9, UPDATED PAT 3 TO PAT 2.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A422	<b>NAME:</b> RICHARD BRUCE
<b>APPROVED BY:</b>	<b>DATE:</b> 03/13/2025	<b>OFFICE:</b> AJV-A420	<b>NAME:</b> CASIMIR TABAKA

**SIGNATURE:**