

RADIO FIX AND HOLDING DATA RECORD

NAME: JAWBN

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 480154.26N/1225035.66W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 12-ANM-24

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	SEATTLE	SEA	VORTAC	H	310.08	329.08	41.83	41.83	5400	17500
2	PENN COVE	CVV	VOR/DME	L	181.55	200.55		13.65	5400	17500
3	TATOOSH	TOU	VORTAC	H	080.00	102.00		73.43	5800	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SEA	VORTAC	R-310	42	5400	17500
TOU	VORTAC	R-080	74	5000	17500

FIX RESTRICTIONS:

MTA V495 SE TO V4 W 8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

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	SEA	VORTAC	310.08	130.08	R	1-1 1/2	5400 17500	9 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	475524.00N/1230039.00W	4407	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	109

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

SEATTLE (FAC 1) AND TATOOSH (FAC 3) USED TO ESTABLISH FIX COORDINATES.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PATTERN 1 CONTROLLING OBSTACLE LOCATED 1.83 NM INTO SECONDARY.
 AIRCRAFT PROCEEDING V495 SE BOUND TURNING WEST AT JAWBN ON V4 MUST MAINTAIN AT OR ABOVE 8000 UNTIL ESTABLISHED ON THE CENTERLINE OF V4 W BOUND.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V4	1, 2, 3				(US)
EN ROUTE	V495	2				(US)
IAP	RNAV (GPS) RWY 26			KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS)-A			OS9	PORT TOWNSEND	WA (US)
STAR	JAWBN	1, 2	1	KBFI	SEATTLE	WA (US)
STAR	JAWBN	1, 2	1	KSEA	SEATTLE	WA (US)
STAR	JAWBN	1, 2	1	KTCM	TACOMA	WA (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 08/22/2013

REASON FOR REVISION:

ADDED WP TO FIX TYPE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 11/06/2012

OFFICE: AJV-352

NAME: PETER GETZ (WESLEE COMBS)

APPROVED BY:

DATE: 07/08/2013

OFFICE: AJV-352

NAME: DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:

NFDC
 FPO: WST
 ARTCC: ZSE

ATC FACILITY: NUW APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JIGEB **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 481354.19N/1230131.69W **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	MRA	MAA
1	VICTORIA	YYJ	VOR/DME	H	131.20	148.20	34.93	34.93	5400	17500
2	PENN COVE	CVV	VOR/DME	L	247.42	266.42	12.10	12.10	5400	17500
3	ELWHA	CL	LOM	MH	063.05	079.05		26.34	5400	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CL	LOM	R-063	27	5400	10000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES MIN DME	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	CVV	VOR/DME	247.42	067.42	R	1	5400	10000	6	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	480727.00N/1230727.00W	371	4E
1	310	AAO	480242.00N/1232257.00W	2809	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.
PAT 1 DME REQUIRED FOR HOLDING.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 08	KCLM	PORT ANGELES	WA (US)

REMARKS:

- PENN COVE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
 1. C-I-H PAT 1 OBSTACLE LOCATED 4,593 FEET INTO SECONDARY AREA (PRI EQ 2117).
 2. PAT 1 REQUIRES DME FROM CVV VOR/DME TO AVOID USING CANADIAN NAVAID AND LARGER C-I-H TEMPLATE ASSOCIATED WITH INTERSECTION HOLDING.
 3. PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER CYA 102 AND/OR CHINOOK B MOA.
 4. PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	T/O MINS	2		KNOW	PORT ANGELES	WA (US)
EN ROUTE	V495	1, 2				(US)
IAP	ILS OR LOC RWY 08	2	1	KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) RWY 08			KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS)-A			OS9	PORT TOWNSEND	WA (US)
STAR	MARNR (RNAV)			KSEA	SEATTLE	WA (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/26/2016

REASON FOR REVISION:

- FIX MAKE-UP: ELWHA MAG BRG CHANGED FROM 058.05 TO 063.05 DUE TO MAGVAR SHIFT.
- FAC 3 IDENT CHANGED FROM CLM TO CL; TYPE FROM NDB TO LOM; MAG BRG FROM 057.05 TO 063.05.
- ESV FAC CHANGED FROM CLM NDB TO CL LOM; RADIAL FROM 057 TO 063.
- ADDED 200 KIAS PATT OBSTACLE.
- ADDED REMARK: PRECIPITOUS TERRAIN EVALUATION COMPLETE.
- UPDATED FIX USE.
- ADDED DP TO REQUIRED CHARTING.
- MIN HOLDING PATT TEMPLATE CHANGED FROM 13 TO 6.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/17/2015	OFFICE: AJV-5432	NAME: COLTON CROWDER
APPROVED BY:	DATE: 03/04/2016	OFFICE: AJV-5430	NAME: JILL OLSON
SIGNATURE:			

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZSE
 ATC FACILITY: NUW APP CON, SEA APP CON
 OTHER:

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: NO CHANGE

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	H	310.08	329.08	49.38	49.38		5400	17500
2	ELWHA	CL	LOM	MH	075.01	091.01		29.31		5400	17500
3	PENN COVE	CVV	VOR/DME	L	215.04	234.04	10.76	10.76		5400	17500
4	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
CL	LOM	R-075	30	5400	10000
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	SEA	VORTAC	310.08	130.08	R		6	5400 10000	7 17
2	NW		WP	307.08	127.08	R		5	5400 10000	6 16
3	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	475539.00N/1230051.00W	4236	4E
2	200	TOWER (53-020390)	480058.67N/1225539.05W	2337	1A
2	310	AAO	475742.00N/1230400.00W	3626	4E
3	200	TOWER (53-020390)	480058.67N/1225539.05W	2337	1A
3	310	AAO	475742.00N/1230400.00W	3626	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 9	KCLM	PORT ANGELES	WA (US)
2	RNAV (GPS) RWY 7	KCLM	PORT ANGELES	WA (US)
3	RNAV (GPS)-A	OS9	PORT TOWNSEND	WA (US)

REMARKS:

SEATTLE (FAC 1) AND PENN COVE (FAC 3) USED TO ESTABLISH FIX COORDINATES.
 HOLDING PAT 1 OBSTACLE LOCATED 1.08 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1589 MSL.
 C-I-H PAT 1 OBSTACLE LOCATED 1.97 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 3243 MSL.
 HOLDING PAT 2/3 OBSTACLE LOCATED 1.46 NM INTO SECONDARY AREA, PRIMARY EQUIVALENT 1473 MSL.
 C-I-H PAT 2/3 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	1, 2		KCLM	PORT ANGELES	WA (US)
EN ROUTE	T268					(US)
EN ROUTE	V495	1, 2, 3				(US)
IAP	NDB RWY 34	4		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 (ALT MA)	1, 2	1	KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) RWY 27			KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS) RWY 9		2	KCLM	PORT ANGELES	WA (US)
IAP	RNAV (GPS)-A		3	OS9	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: 18

DATE OF REVISION: 09/08/2022

REASON FOR REVISION:

1. ADDED SPECIAL IAP AND SPECIAL DP TO REQUIRED CHARTING.
2. ADDED 26WA SPECIAL IAP COPTER RNAV (GPS) 26, SPECIAL DP LAAML (RNAV) TO FIX USE.
3. ADDED 7WA2 SPECIAL IAP COPTER RNAV (GPS) 17, SPECIAL DP ROSFE (RNAV) TO FIX USE.
4. ADDED SPECIAL ROUTE ZK547 TO FIX USE.
5. HOLDING PATTERN 3. 200 KNOTS, CONTROLLING OBSTACLE CHANGED FROM 2360 AAO 480055.10N/1225522.80W 6C TO 2337 TOWER (53-020390) 480058.67N/1225539.05W 1A.
6. REVISED HOLDING PAT 2/3 REMARK: OBST LOCATED 1.46 NM INTO SA AREA, PRIMARY EQUIVALENT 1473.
7. CHANGED KCLM IAP FROM ILS OR LOC RWY 8 TO ILS OR LOC RWY 9.
8. CHANGED KCLM IAP FROM RNAV (GPS) RWY 26 TO RNAV (GPS) RWY 27.
9. CHANGED KCLM IAP FROM RNAV (GPS) RWY 8 TO RNAV (GPS) RWY 9.

5/20/22 THIS IS A CORRECTED COPY OF THE FORM COMPLETED ON 5/6/22:

1. ADDED ILS OR LOC RWY 9 (ALT MA) TO PROCEDURES REQUIRING CLIMB-IN-HOLD.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A432	NAME: CASEY HILL
APPROVED BY:	DATE: 09/08/2022	OFFICE: AJV-A430	NAME: CASIMIR TABAKA
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: YAYUB

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 480603.45N/1230609.67W

TYPE: WP

AIRSPACE DOCKET: 12-ANM-24

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	267.44	087.44	L	4	3200	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION
1	200	AAO

COORDINATES
480118.00N/1230627.00W

ELEVATION
2766

ACCURACY CODE
4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PAT 1 CONTROLLING OBS IS LOCATED 5971 FT INTO SECONDARY, PRIMARY EQ HGT 2020 FT.

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS)-A

FAC

PAT
1

AIRPORT IDENT
0S9

CITY
PORT TOWNSEND

STATE
WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/22/2013

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/29/2012

OFFICE: AJV-354

NAME: PETER GETZ (WESLEE COMBS)

APPROVED BY:

DATE: 07/08/2013

OFFICE: AJV-354

NAME: DEBORAH COPELAND

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: NUW APP CON
OTHER: