

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CETUV **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 463559.91N/1232120.75W **TYPE:** WP, 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 NM	FAC FEET	MRA	MAA
1	OLYMPIA	OLM	VORTAC	H	201.16	220.16	29.12	29.12		5000	17500

**FIX RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**HOLDING:**

**HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	254.00	074.00	R		5	5000	6000	6	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	463006.00N/1232309.00W	2773	2E
1	310	AAO	462912.60N/1231242.00W	3360	6C

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
1	200	210
1	310	210

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

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 16	KCLS	CHEHALIS	WA (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PAT 1 200K OBSTACLE IPDS DTED HORIZONTAL ACCURACY: 43 FT.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V187	1				(US)
IAP	RNAV (GPS) RWY 16		1	KCLS	CHEHALIS	WA (US)
IAP	RNAV (GPS) RWY 6			KTDO	TOLEDO	WA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3

**DATE OF REVISION:** 09/15/2016

**REASON FOR REVISION:**

1. UPDATED PAT 1 RAD/CRS/BRG CRS INBOUND FROM 201.16/021.16 TO 254.00/074.00.
2. UPDATED MAX ALTITUDE FROM 8000 FT TO 6000 FT AND MAX TEMPLATE FROM 9 TO 6.
3. UPDATED PAT 1 310K CONTROLLING OBSTRUCTIONS COORDINATES AND ACCURACY CODES AND UPDATED PAT 1 200K CONTROLLING OBSTRUCTION.
4. UPDATED PAT 1 200K PRECIPITOUS TERRAIN ADJUSTMENT FROM 134 TO 210 AND ADDED 310K ADJUSTMENT.
5. ADDED RNAV (GPS) RWY 16 TO PROCEDURES REQUIRING CLIMB-IN-HOLD.
6. MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM HOLDING RESTRICTIONS TO FIX RESTRICTIONS.
7. ADDED RNAV (GPS) RWY 16 TO FIX USE.
8. PAT 1 200K IPDS DTED REMARK.

**DEVELOPED BY:** **DATE:** 04/21/2016 **OFFICE:** AJV-5432 **NAME:** SYLVAN DRAKES

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5430 **NAME:** LONNIE EVERHART

**SIGNATURE:**

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

QUALITY  
14  
CHECKED

**INFO ONLY**

## RADIO FIX AND HOLDING DATA RECORD

NAME: DOCRA

STATE: WA

COUNTRY: US

LATITUDE/LONGITUDE: 465801.61N/1231137.67W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	OLYMPIA	OLM	VORTAC	H	249.81	268.81	12.00	12.00		4500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-204	1				WA (US)
IAP	RNAV (GPS) RWY 16			KCLS	CHEHALIS	WA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/26/2012

**REASON FOR REVISION:**

DELETED FACILITY 2.  
ADDED DISTANCE FROM DATA FOR FACILITY 1.  
RAISED MRA FROM 4000 TO 4500, AIRWAY MEA.  
UPDATED FIX USE.

DEVELOPED BY: DATE: 03/02/2012

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (ROBERT DAVIS)

APPROVED BY: DATE: 05/23/2012

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY:  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DUMBS

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465553.40N/1230539.71W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 16

FAC

PAT

AIRPORT IDENT  
KCLS

CITY  
CHEHALIS

STATE  
WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/15/2016

DEVELOPED BY:

DATE: 04/21/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
14  
CHECKED

**CANCEL**

## RADIO FIX AND HOLDING DATA RECORD

NAME: JIVUT

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 463638.27N/1225844.50W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 16

FAC

PAT

AIRPORT IDENT  
KCLS

CITY  
CHEHALIS

STATE  
WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/26/2012

REASON FOR REVISION:

DELETED FACILITY 1.  
UPDATED FIX USE.

DEVELOPED BY:

DATE:

OFFICE:

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY:  
OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MALAY **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 462521.99N/1224539.29W **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	FAC FEET	MRA	MAA
1	BATTLE GROUND	BTG	VORTAC	H	329.16	350.16	41.12	41.12		5000	17500
2	ASTORIA	AST	VOR/DME	L	052.00	071.00		49.14		9500	17500
3	OLYMPIA	OLM	VORTAC	H	150.93	169.93	33.46	33.46		6000	17500
4	SEATTLE	SEA	VORTAC	H	178.14	197.14	63.55	63.55		5000	17500
5	NEWBERG	UBG	VOR/DME	H	347.00	008.00	64.83	64.83		17000	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BTG	VORTAC	R-329	42	5000	17500
AST	VOR/DME	R-052	50	9500	17500
SEA	VORTAC	R-178	64	5000	17500

**FIX RESTRICTIONS:**

MRA V23 9500  
MRA V287 9500

**HOLDING:** **HOLDING TYPE OF ACTION:** CANCEL

**REMARKS:**

ASTORIA (FAC 2) AND OLYMPIA (FAC 3) USED TO ESTABLISH FIX COORDINATES

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V23	1, 2, 3, 4, 5				(US)
EN ROUTE	V23-287	1, 2				(US)
EN ROUTE	V287	1, 2, 3				(US)
IAP	NDB-A	2, 3, 4	KKLS	KELSO		WA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 13 **DATE OF REVISION:** 09/15/2016

**REASON FOR REVISION:**

1. REMOVED RNAV (GPS) RWY 16 FROM PROCEDURES REQUIRING CLIMB-IN-HOLD AND FIX USE.
2. UPDATED FAC 1 MRA FROM 6000 FT TO 5000 FT.
3. CANCELLED HOLDING AND REMOVED APPLICABLE HOLDING NOTES.

**DEVELOPED BY:** **DATE:** 04/21/2016 **OFFICE:** AJV-5432 **NAME:** SYLVAN DRAKES

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5430 **NAME:** LONNIE EVERHART

**SIGNATURE:**

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

QUALITY  
14  
CHECKED

**INFO ONLY****RADIO FIX AND HOLDING DATA RECORD**

NAME: MCKEN

STATE: WA

COUNTRY: US

LATITUDE/LONGITUDE: 465203.70N/1223345.42W

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 NM	FAC FEET	MRA	MAA
1	SEATTLE	SEA	VORTAC	H	178.00	197.00	35.62	35.62		3000	17500
2	OLYMPIA	OLM	VORTAC	H	094.97	113.97	15.28	15.28		4000	17500

**FIX RESTRICTIONS:**MCA V23 4100 SOUTHBOUND  
MCA V204 5000 EASTBOUND**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	S	SEA	VORTAC	178.00	358.00	R	1	6000	6000	7	7
2	E	OLM	VORTAC	094.97	274.97	R	1	4500	10000	7	11

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	464033.00N/1222918.00W	3928	4E
2	200	AAO	464439.00N/1221615.00W	4036	4E

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
1	200	187
2	200	115

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**SEATTLE (FAC 1) AND OLYMPIA (FAC 2) USED TO ESTABLISH FIX COORDINATES  
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-6703 AND RANIER MOA.  
HOLDING (PAT 1) AND (PAT 2) FOR AIR TRAFFIC USE.  
PAT 2 OBSTACLE 5703.13 FT INTO SECONDARY.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V204	1, 2				(US)
EN ROUTE	V23	1, 2				(US)
IAP	RNAV (GPS) RWY 16			KCLS	CHEHALIS	WA (US)
IAP	NDB RWY 33	1, 2		KGRF	FORT LEWIS/TACOMA	WA (US)
IAP	VOR/DME RWY 35	2		KOLM	OLYMPIA	WA (US)
IAP	ILS OR LOC RWY 34	2		KTCM	TACOMA	WA (US)
IAP	ILS RWY 34 CAT II	2		KTCM	TACOMA	WA (US)
IAP	TACAN RWY 34	2		KTCM	TACOMA	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 10/15/2015

**REASON FOR REVISION:**

UPDATED FIX USE FOR KTCM BASED ON USAF INPUT.

DEVELOPED BY: DATE: 05/22/2015

OFFICE: AJV-354

NAME: RUSSELL ROSLEWSKI

APPROVED BY: DATE: 09/01/2015

OFFICE: AJV-354

NAME: JILL OLSON

SIGNATURE:

**DISTRIBUTION:**NFDC  
FPO: WST  
ARTCC: ZSE  
ATC FACILITY: SEA APP CON, OLM ATCT  
OTHER:QUALITY  
14  
CHECKED

**INFO ONLY**

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** NOYID

**STATE:** WA

**COUNTRY:** US

**LATITUDE/LONGITUDE:** 464639.56N/1225918.23W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

8260.54A 2-16B PFAF FORMULA APPLIED

**FIX USE:**

**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 16

**FAC**

**PAT**

**AIRPORT IDENT**  
KCLS

**CITY**  
CHEHALIS

**STATE**  
WA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 07/26/2012

**REASON FOR REVISION:**

DELETED FACILITY 1.  
MOVED FIX NORTH 781.68 FEET.  
ADDED PFAF FORMULA REMARK.  
UPDATED FIX USE.

**DEVELOPED BY:**

**DATE:** 03/14/2012

**OFFICE:** AJV-354

**NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

**APPROVED BY:**

**DATE:** 05/23/2012

**OFFICE:** AJV-354

**NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
14  
CHECKED

# INFO ONLY

## RADIO FIX AND HOLDING DATA RECORD

NAME: OLYMPIA VORTAC

STATE: WA

COUNTRY: US

LATITUDE/LONGITUDE: 465817.90N/1225406.60W

TYPE:

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	OLYMPIA	OLM	VORTAC	H							45000

### FIX RESTRICTIONS:

MCA V204 3200 WESTBOUND

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	S	OLM	VORTAC	176.00	356.00	R	1	3100 10000	4 9
2	SE	OLM	VORTAC	151.00	331.00	L	1-1 1/2	4000 17500	4 16
3	S	OLM	VORTAC	176.00	356.00	L	1	4000 14000	4 10

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	465039.00N/1225006.00W	1113	4E
1	310	AAO	470012.00N/1230309.00W	1995	4E
2	200	AAO	465039.00N/1225006.00W	1113	4E
3	200	AAO	470009.00N/1230312.00W	2002	4E
3	310	TOWER (53-000907)	465831.00N/1230821.00W	2972	5E

### REASON FOR NONSTANDARD HOLDING:

PAT 2 TO AVOID R-6703

PAT 3 TO AVOID R-6703

### HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-6703, AND RAINIER MOA, PAT 1 ALL ALTITUDES.

PAT 2 ABOVE 6000', PAT 3 ABOVE 8000'.

ADDITIONAL AIRSPACE REQUIRED FOR HOLDING PATTERN 1, P-12.

### PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KOLM	OLYMPIA	WA (US)
3	YELM	KOLM	OLYMPIA	WA (US)

### REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PAT 3 200K OBSTACLE 1.80 NM INTO SECONDARY.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PORTLAND			KPDJ	PORTLAND	OR (US)
DP	PAINE			KPAE	EVERETT	WA (US)
DP	LEWIS			KGRF	FORT LEWIS	WA (US)
DP	TAKE-OFF MINIMUMS		1	KOLM	OLYMPIA	WA (US)
DP	YELM		3	KOLM	OLYMPIA	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	HAROB (RNAV)			KSEA	SEATTLE	WA (US)
DP	SEATTLE			KSEA	SEATTLE	WA (US)
DP	SUMMA			KSEA	SEATTLE	WA (US)
DP	ALDER			KTCM	TACOMA	WA (US)
DP	MOCAA (RNAV)			KTCM	TACOMA	WA (US)
DP	OLYMPIC			KTCM	TACOMA	WA (US)
DP	PUGET			KTCM	TACOMA	WA (US)
DP	NARROWS			KTIW	TACOMA	WA (US)
DP	TAKE-OFF MINIMUMS			KTIW	TACOMA	WA (US)
EN ROUTE	J126					(US)
EN ROUTE	J34					(US)
EN ROUTE	J54					(US)
EN ROUTE	V165					(US)
EN ROUTE	V187					(US)
EN ROUTE	V204					(US)
EN ROUTE	V287		2			(US)
IAP	RNAV (GPS) RWY 26			KAST	ASTORIA	OR (US)
IAP	ILS OR LOC RWY 20			KPWT	BREMERTON	WA (US)
IAP	RNAV (GPS) RWY 2			KPWT	BREMERTON	WA (US)
IAP	RNAV (GPS) RWY 16			KCLS	CHEHALIS	WA (US)
IAP	COPTER NDB 15			KGRF	FORT LEWIS	WA (US)

QUALITY  
14  
CHECKED



IAP	ILS OR LOC RWY 15		KGRF	FORT LEWIS	WA (US)
IAP	NDB RWY 15		KGRF	FORT LEWIS	WA (US)
IAP	NDB RWY 33		KGRF	FORT LEWIS	WA (US)
IAP	RNAV (GPS) RWY 15		KGRF	FORT LEWIS	WA (US)
IAP	RNAV (GPS) RWY 33		KGRF	FORT LEWIS	WA (US)
IAP	ILS OR LOC RWY 17		KOLM	OLYMPIA	WA (US)
IAP	RNAV (GPS) RWY 17		KOLM	OLYMPIA	WA (US)
IAP	RNAV (GPS) RWY 35		KOLM	OLYMPIA	WA (US)
IAP	VOR-A	3	KOLM	OLYMPIA	WA (US)
IAP	VOR/DME RWY 35	3	KOLM	OLYMPIA	WA (US)
IAP	ILS RWY 31L		KBFI	SEATTLE	WA (US)
IAP	NDB-A		KSHN	SHELTON	WA (US)
IAP	RNAV (GPS) RWY 23		KSHN	SHELTON	WA (US)
IAP	ILS OR LOC Y RWY 34		KTCM	TACOMA	WA (US)
IAP	ILS RWY 34 (CAT II)		KTCM	TACOMA	WA (US)
IAP	TACAN RWY 34		KTCM	TACOMA	WA (US)
IAP	NDB RWY 35		KTIW	TACOMA	WA (US)
IAP	RNAV (GPS) RWY 35		KTIW	TACOMA	WA (US)
STAR	OLYMPIA	2	KPAE	EVERETT	WA (US)
STAR	OLYMPIA	2	KRNT	RENTON	WA (US)
STAR	OLYMPIA	2	KBFI	SEATTLE	WA (US)
STAR	OLYMPIA	2	KSEA	SEATTLE	WA (US)
STAR	ARRIE		KTCM	TACOMA	WA (US)
STAR	WHYTE		KTCM	TACOMA	WA (US)

**REQUIRED CHARTING:** DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 15

**DATE OF REVISION:** 12/10/2015

**REASON FOR REVISION:**

UPDATED FIX USE, ADD MOCAA RNAV DP TO KTCM.

**DEVELOPED BY:**      **DATE:** 07/10/2015

**OFFICE:** AJV-5430

**NAME:** AISHAT NAUZO

**APPROVED BY:**      **DATE:** 11/04/2015

**OFFICE:** AJV-5430

**NAME:** LONNIE EVERHART

**SIGNATURE:**

**DISTRIBUTION:**

**NFDC**  
**FPO:** WST  
**ARTCC:** ZSE  
**ATC FACILITY:** SEA APP CON  
**OTHER:** OLM ATCT

QUALITY  
14  
CHECKED

**INFO ONLY**

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** OPICO

**STATE:** WA

**COUNTRY:** US

**LATITUDE/LONGITUDE:** 464413.74N/1225910.03W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 16

**FAC**

**PAT**

**AIRPORT IDENT**  
KCLS

**CITY**  
CHEHALIS

**STATE**  
WA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 07/26/2012

**DEVELOPED BY:**

**DATE:** 03/12/2012

**OFFICE:** AJV-354

**NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

**APPROVED BY:**

**DATE:** 05/23/2012

**OFFICE:** AJV-354

**NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RELTE

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465344.87N/1225942.22W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

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	N		WP	341.78	161.78	R	4	4000 4000	5 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	465824.00N/1230812.00W	2879	2C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	120

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 16		1	KCLS	CHEHALIS	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

1. CHANGED MAX HOLDING ALTITUDE FROM 8000 TO 4000 AND MAX TEMPLATE FROM 9 TO 5.
2. ADDED PAT 1 200K PRECIPITOUS TERRAIN ADJUSTMENT OF 120 FT.
3. MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM HOLDING RESTRICTIONS TO FIX RESTRICTIONS.

DEVELOPED BY:

DATE: 04/21/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
14  
CHECKED

**INFO ONLY**

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** ZUMET

**STATE:** WA

**COUNTRY:** US

**LATITUDE/LONGITUDE:** 465453.58N/1224814.60W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS) RWY 16

**FAC**   **PAT**   **AIRPORT IDENT**   **CITY**  
KCLS     KCLS     CHEHALIS

**STATE**  
WA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 07/26/2012

**DEVELOPED BY:**      **DATE:** 03/12/2012

**OFFICE:** AJV-354

**NAME:** ADOLFO URRUTIA (ROBERT DAVIS)

**APPROVED BY:**      **DATE:** 05/23/2012

**OFFICE:** AJV-354

**NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
14  
CHECKED