

# RADIO FIX AND HOLDING DATA RECORD

NAME: BLYTZ

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 434702.94N/1211813.83W

TYPE: WP

AIRSPACE DOCKET:

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	SE		WP	139.96	319.96	L	10	24000	41000	20	29

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 TURN DIRECTION AND NON-STANDARD LEG LENGTH ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**FIX USE:**

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

HAWKZ (RNAV)

1

KSEA

SEATTLE

WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/13/2018

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/11/2018

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: BREVE

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 471123.74N/1222848.46W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
HAWKZ (RNAV)

FAC

PAT

AIRPORT IDENT  
KSEA

CITY  
SEATTLE

STATE  
WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/07/2013

REASON FOR REVISION:

MOVED FIX 1 NM EAST AND UPDATED COORDINATES.

REMOVED SPECIAL FIX RESTRICTION

UPDATED FIX USE, CONVERTED HAWKZ FROM SPECIAL TO PUBLIC USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/07/2012

OFFICE: AJV-354

NAME: DION LANCIA

APPROVED BY:

DATE: 01/08/2013

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** COFAY

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 470443.83N/1223001.57W

**TYPE:** WP

**AIRSPACE DOCKET:** 17-ANM-24

**FIX TYPE OF ACTION:** MODIFY

**FIX RESTRICTIONS:**

MCA T317 4600 EASTBOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
EN ROUTE  
STAR

**USE TITLE**  
T317  
HAWKZ (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

**CITY**

**STATE**  
(US)  
WA (US)

KSEA

SEATTLE

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 01/30/2020

**REASON FOR REVISION:**

1. ADDED AIRSPACE DOCKET NUMBER.
2. RESTRICTIONS: ADDED MCA T317 4600 EASTBOUND.
2. FIX USE: ADDED T317. CHANGED KSEA HAWKZ (STAR) TO HAWKZ (RNAV) STAR.
3. CHARTING: ADDED ENROUTE LOW AND CONTROLLER LOW.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A422

**NAME:** BARRY SMITH

**APPROVED BY:**

**DATE:** 11/15/2019

**OFFICE:** AJV-A422

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: ESLEY

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 451746.26N/1221711.93W

TYPE: WP

AIRSPACE DOCKET:

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	SE		WP	139.41	319.41	R	10	24000	41000	20	29

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

PAT 1 NON-STANDARD LEG LENGTH ATC REQUEST

## FIX USE:

USE TYPE

STAR

USE TITLE

HAWKZ (RNAV)

FAC

PAT

1

AIRPORT IDENT

KSEA

CITY

SEATTLE

STATE

WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/13/2018

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/11/2018

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FOOTT

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 465429.83N/1223448.93W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
STAR

**USE TITLE**  
HAWKZ (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KSEA

**CITY**  
SEATTLE

**STATE**  
WA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 09/13/2018

**REASON FOR REVISION:**

MOVED FIX 0.44 NM SSW.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 04/12/2018

**OFFICE:** AJV-5442

**NAME:** JEFF ANDERSON

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5440

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GOALZ

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 465856.84N/1222806.60W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** MODIFY

**FIX USE:**

**USE TYPE**  
STAR

**USE TITLE**  
HAWKZ (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KSEA

**CITY**  
SEATTLE

**STATE**  
WA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 08/22/2013

**REASON FOR REVISION:**

FIX MOVES 2 NM SW.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 06/20/2013

**OFFICE:** AJV-354

**NAME:** AMANDA ROBBINS

**APPROVED BY:**

**DATE:** 08/06/2013

**OFFICE:** AJV-354

**NAME:** LARRY STROUT

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KLAMATH FALLS VORTAC      **STATE:** OR      **COUNTRY:** US      **ICAO REGION CODE:** K1  
**LATITUDE/LONGITUDE:** 420911.31N/1214339.10W      **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	KLAMATH FALLS	LMT	VORTAC	VH							45000

**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	W	LMT	VORTAC	250.00	070.00	R	1		8100	14000	10	17
2	SE	WP	WP	154.45	334.45	L		10	24000	41000	20	29

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	420408.00N/1215819.00W	6800	6C
1	310	AAO	420408.00N/1215819.00W	6800	6C

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
1	310	230
1	265	180

**REASON FOR NONSTANDARD HOLDING:**

PAT 2 ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

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

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	CRATER (OBSTACLE)	KLMT	KLAMATH FALLS	OR (US)
1	ILS Y OR LOC/DME Y RWY 32	KLMT	KLAMATH FALLS	OR (US)

**REMARKS:**

PAT 1 C-I-H EVALUATED TO 12000, TEMPLATE 17.  
 PAT 1 MIN ALTITUDE 8100 INCLUDES 230 FT. PRECIPITOUS TERRAIN ADDITION.  
 PAT 1 SUPPORTS MILITARY F-15S.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAGVAR: 17 DEGREES E

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHICO			KCIC	CHICO	CA (US)
DP	SHASTA			KRDD	REDDING	CA (US)
DP	EUGENE			KEUG	EUGENE	OR (US)
DP	CRATER (OBSTACLE)		1	KLMT	KLAMATH FALLS	OR (US)
DP	KINGSLEY			KLMT	KLAMATH FALLS	OR (US)
DP	KLAMATH FALLS (RNAV)			KMFR	MEDFORD	OR (US)
DP	PORTLAND			KPDX	PORTLAND	OR (US)
DP	REDMOND			KRDM	REDMOND	OR (US)
EN ROUTE	J189					(US)
EN ROUTE	J65					(US)
EN ROUTE	J92					(US)
EN ROUTE	V122					(US)
EN ROUTE	V25					(US)
EN ROUTE	V452					(US)
IAP	NDB OR GPS-A			KSIY	MONTAGUE	CA (US)
IAP	HI ILS OR LOC RWY 32			KLMT	KLAMATH FALLS	OR (US)
IAP	HI-TACAN RWY 14			KLMT	KLAMATH FALLS	OR (US)
IAP	HI-TACAN RWY 32			KLMT	KLAMATH FALLS	OR (US)
IAP	ILS Y OR LOC/DME Y RWY 32		1	KLMT	KLAMATH FALLS	OR (US)
IAP	VOR/DME OR TACAN RWY 14			KLMT	KLAMATH FALLS	OR (US)
IAP	VOR/DME OR TACAN RWY 32		1	KLMT	KLAMATH FALLS	OR (US)
STAR	TUDOR			KSMF	SACRAMENTO	CA (US)
STAR	OCITY			KHIO	PORTLAND	OR (US)
STAR	OCITY			KPDX	PORTLAND	OR (US)
STAR	OCITY			KTTD	PORTLAND	OR (US)
STAR	HAWKZ (RNAV)		2	KSEA	SEATTLE	WA (US)

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

**COMPULSORY REPORTING POINT:** NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 07/11/2024

**REASON FOR REVISION:**

1. FIX MAKE-UP FACILITIES: CHANGED LMT VORTAC CLASS FROM H TO VH.
2. HOLDING PAT 1: CHANGED MIN ALTITUDE FROM 8000 TO 8100 AND MAX TEMPLATE FROM 18 TO 17.
3. CONTROLLING OBSTRUCTIONS: CHANGED PAT 1 (265 AND 310 AIRSPEEDS) COORDINATES FROM 420409.20N/1215804.30W TO 420408.00N/1215819.00W AND ACCURACY CODE FROM 6A TO 6C.
4. PRECIPITOUS TERRAIN ADDITIONS: INCREASED PAT 1 (265 SPEED) FROM 91 TO 180 AND PAT 1 (310 SPEED) FROM 106 TO 230.
5. REASON FOR NONSTANDARD HOLDING: PAT 2, REFORMATTED FROM "TURN DIRECTION AND NON-STANDARD LEG LENGTH ATC REQUEST" TO "ATC REQUEST."
6. PROCEDURES REQUIRING CLIMB-IN-HOLD: PAT 1, CHANGED KLMT TAKE-OFF MINIMUMS TO CRATER (OBSTACLE).
7. PROCEDURES REQUIRING CLIMB-IN-HOLD: PAT 1, ADDED ILS Y OR LOC/DME Y RWY 32 AT KLMT.
8. REMARKS: CHANGED "PAT 1 C-I-H EVALUATED TO 10000 TEMPLATE 15" TO "PAT 1 C-I-H EVALUATED TO 12000, TEMPLATE 17."
9. REMARKS: CHANGED "PRECIPITOUS TERRAIN EVALUATION COMPLETED: PAT 1 TEMPLATE 14 91 FT ADJUSTMENT, TEMPLATE 15 106 FT ADJUSTMENT, APPLIED 106 FT" TO "PRECIPITOUS TERRAIN EVALUATION COMPLETED."
10. REMARKS: ADDED "PAT 1 MIN ALTITUDE 8100 INCLUDES 230 FT. PRECIPITOUS TERRAIN ADDITION."
11. REMARKS: REFORMATTED "LMT MVAR 1990/E17" TO "ASSIGNED FACILITY MAGVAR: 17 DEGREES E."
12. FIX USE: CHANGED KLMT "TAKE-OFF MINIMUMS" TO "CRATER (OBSTACLE)."
13. FIX USE: CHANGED KLMT "ILS OR LOC/DME RWY 32" TO "ILS Y OR LOC/DME Y RWY 32."
14. FIX USE: OCITY STAR AT KHIO AND KTTD, DELETED PAT 1.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A33

**NAME:** JOHN BORDY**APPROVED BY:****DATE:** 07/11/2024**OFFICE:** AJV-A33**NAME:** JOHN BORDY**SIGNATURE:**



# RADIO FIX AND HOLDING DATA RECORD

NAME: KNGDM

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 432110.65N/1220015.30W

TYPE: WP

AIRSPACE DOCKET:

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	SE		WP	154.45	334.45	L	10	24000	41000	20	29

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 TURN DIRECTION AND NON-STANDARD LEG LENGTH ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**FIX USE:**

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

HAWKZ (RNAV)

1

KSEA

SEATTLE

WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/13/2018

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/11/2018

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KWEST

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 472432.89N/1222719.14W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
STAR

**USE TITLE**  
HAWKZ (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KSEA

**CITY**  
SEATTLE

**STATE**  
WA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 09/13/2018

**REASON FOR REVISION:**

MOVED 0.69NM SOUTH.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 04/09/2018

**OFFICE:** AJV-5442

**NAME:** JEFF ANDERSON

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5440

**NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** LAKEVIEW VORTAC **STATE:** OR **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 422934.24N/1203025.58W **TYPE:**

**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	LAKEVIEW	LKV	VORTAC	H							45000

**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	LKV	VORTAC	328.44	148.44	R	1		9700	17500	9	20
2	SE		WP	139.96	319.96	L		10	24000	41000	20	29

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	424041.40N/1204319.30W	7962	6A
1	310	AAO	423246.40N/1204716.40W	8334	6A

**PRECIPITOUS TERRAIN ADDITIONS:**

PAT	SPEED	ADDITION
1	310	291
1	230	273

**REASON FOR NONSTANDARD HOLDING:**

PAT 2 TURN DIRECTION AND NON-STANDARD LEG LENGTH ATC REQUEST

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

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS	KLKV	LAKEVIEW	OR (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
LKV MVAR 1975/E19.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KINGSLEY			KLMT	KLAMATH FALLS	OR (US)
DP	TAKE-OFF MINIMUMS		1	KLKV	LAKEVIEW	OR (US)
DP	PORTLAND			KPDX	PORTLAND	OR (US)
DP	REDMOND			KRDM	REDMOND	OR (US)
DP	SUMMA			KSEA	SEATTLE	WA (US)
EN ROUTE	J3					(US)
EN ROUTE	J5					(US)
EN ROUTE	J67					(US)
EN ROUTE	V122					(US)
EN ROUTE	V165					(US)
EN ROUTE	V357					(US)
IAP	RNAV (GPS) RWY 17			KLKV	LAKEVIEW	OR (US)
IAP	RNAV (GPS) RWY 35			KLKV	LAKEVIEW	OR (US)
STAR	TUDOR			KSMF	SACRAMENTO	CA (US)
STAR	HAWKZ (RNAV)		2	KSEA	SEATTLE	WA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8

**DATE OF REVISION:** 09/10/2020

**REASON FOR REVISION:**

REMOVED PATTERN 2 FROM HOLDING PATTERNS, CONTROLLING OBSTRUCTIONS AND PRECIP TERRAIN ADDITIONS.  
REMOVED UNPLANNED HOLDING FROM CONTROLLING OBSTRUCTIONS, PRECIP TERRAIN ADDITIONS AND HOLDING RESTRICTIONS.  
REMOVED IAP VOR/DME-A AT KLKV FROM FIX USE.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A421 **NAME:** APRIL SARMENTO

**APPROVED BY:** **DATE:** **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:****NFDC****FPO: WST****ARTCC: ZSE****ATC FACILITY:****OTHER: HQ ANG**

# RADIO FIX AND HOLDING DATA RECORD

NAME: LIINE STATE: WA COUNTRY: US ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465039.19N/1224006.62W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE STAR	HAWKZ (RNAV)			KSEA	SEATTLE	WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 03/07/2013

REASON FOR REVISION:  
MOVED FIX 0.66 NM WEST AND UPDATED COORDINATES.  
REMOVED SPECIAL FIX RESTRICTION.  
UPDATED FIX USE, CONVERTED HAWKZ FROM SPECIAL TO PUBLIC USE.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 09/07/2012	OFFICE: AJV-354	NAME: DION LANCIA
APPROVED BY:	DATE: 01/08/2013	OFFICE: AJV-354	NAME: DEZ SILAGYI

SIGNATURE:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: NETTZ

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472109.00N/1222719.00W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
HAWKZ (RNAV)

FAC

PAT

AIRPORT IDENT  
KSEA

CITY  
SEATTLE

STATE  
WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/07/2013

REASON FOR REVISION:

REMOVED SPECIAL FIX RESTRICTION.

UPDATED FIX USE, CONVERTED HAWKZ FROM SPECIAL TO PUBLIC USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/07/2012

OFFICE: AJV-354

NAME: DION LANCIA

APPROVED BY:

DATE: 01/08/2013

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** PIKEZ

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 465615.94N/1223343.27W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

**USE TYPE**  
STAR

**USE TITLE**  
HAWKZ (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**  
KSEA

**CITY**  
SEATTLE

**STATE**  
WA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 03/07/2013

**REASON FOR REVISION:**

MOVED FIX 3.57 NM NORTHEAST AND UPDATED COORDINATES, NAME RETAINED PER ATC REQUEST FOR OPERATIONAL ADVANTAGE.  
REMOVED SPECIAL FIX RESTRICTION.  
UPDATED FIX USE, CONVERTED HAWKZ FROM SPECIAL TO PUBLIC USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 09/07/2012

**OFFICE:** AJV-354

**NAME:** DION LANCIA

**APPROVED BY:**

**DATE:** 01/08/2013

**OFFICE:** AJV-354

**NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: PTERA

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 460539.52N/1224038.89W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
HAWKZ (RNAV)

FAC

PAT

AIRPORT IDENT  
KSEA

CITY  
SEATTLE

STATE  
WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/07/2013

REASON FOR REVISION:

REMOVED SPECIAL FIX RESTRICTION.

UPDATED FIX USE, CONVERTED HAWKZ FROM SPECIAL TO PUBLIC USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/07/2012

OFFICE: AJV-354

NAME: DION LANCIA

APPROVED BY:

DATE: 01/08/2013

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: SONDR

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470725.69N/1222056.30W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	RNAV (RNP) M RWY 34L			KSEA	SEATTLE	WA (US)
IAP	ILS OR LOC RWY 34C			KSEA	SEATTLE	WA (US)
IAP	ILS OR LOC RWY 34L			KSEA	SEATTLE	WA (US)
IAP	ILS OR LOC RWY 34R			KSEA	SEATTLE	WA (US)
IAP	ILS RWY 34C (SA CAT I, SA CAT II)			KSEA	SEATTLE	WA (US)
IAP	ILS RWY 34L (SA CAT I, SA CAT II)			KSEA	SEATTLE	WA (US)
IAP	ILS RWY 34R (SA CAT I, SA CAT II)			KSEA	SEATTLE	WA (US)
IAP	RNAV (GPS) Y RWY 34C			KSEA	SEATTLE	WA (US)
IAP	RNAV (GPS) Y RWY 34L			KSEA	SEATTLE	WA (US)
IAP	RNAV (GPS) Y RWY 34R			KSEA	SEATTLE	WA (US)
IAP	RNAV (RNP) Z RWY 34C			KSEA	SEATTLE	WA (US)
IAP	RNAV (RNP) Z RWY 34L			KSEA	SEATTLE	WA (US)
IAP	RNAV (RNP) Z RWY 34R			KSEA	SEATTLE	WA (US)
STAR	HAWKZ (RNAV)			KSEA	SEATTLE	WA (US)
STAR	MARNR (RNAV)			KSEA	SEATTLE	WA (US)

REQUIRED CHARTING: STAR, IAP, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 07/21/2016

## REASON FOR REVISION:

FIX USE: ADDED MARNR (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/15/2016

OFFICE: AJV-5442

NAME: JEFF ANDERSON (JACOB MAXFIELD)

APPROVED BY:

DATE: 05/23/2016

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** VASHN

**STATE:** WA

**COUNTRY:** US

**ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 473041.41N/1222719.32W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** NO CHANGE

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) M RWY 16R (SPECIAL)			KSEA	SEATTLE	WA (US)
IAP	RNAV (RNP) Z RWY 16C			KSEA	SEATTLE	WA (US)
IAP	RNAV (RNP) Z RWY 16R			KSEA	SEATTLE	WA (US)
STAR	HAWKZ (RNAV)			KSEA	SEATTLE	WA (US)

**REQUIRED CHARTING:** STAR, IAP, SPECIAL IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 11/13/2014

**REASON FOR REVISION:**

UPDATED FIX USE

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 07/01/2014

**OFFICE:** AJV-351

**NAME:** CHARLES SCHNEIDER

**APPROVED BY:**

**DATE:** 11/13/2014

**OFFICE:** AJV-354

**NAME:** JILL OLSON

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: WRUSL

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 451520.40N/1222800.37W

TYPE: WP

AIRSPACE DOCKET:

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	SE		WP	154.26	334.26	L	10	24000	41000	20	29

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 TURN DIRECTION AND NON-STANDARD LEG LENGTH ATC REQUEST

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN

**FIX USE:**

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

HAWKZ (RNAV)

1

KSEA

SEATTLE

WA (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/13/2018

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/11/2018

OFFICE: AJV-5442

NAME: JEFF ANDERSON

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY: SEA APP CON

OTHER: