

RADIO FIX AND HOLDING DATA RECORD

NAME: CASHS

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472421.30N/1202730.29W

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	FAC FEET	MRA	MAA
1	WENATCHEE	EAT	VOR/DME	L	257.21	272.21	10.10	10.10		12000	17500
2	ELLENSBURG	ELN	VOR/DME	H	339.00	360.00		22.90		12000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

WENATCHEE (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	RNAV (RNP) M RWY 12			KEAT	WENATCHEE	WA (US)
SPECIAL IAP	RNAV (RNP) M RWY 30			KEAT	WENATCHEE	WA (US)
EN ROUTE	Q146					(US)
EN ROUTE	V120	1, 2				(US)
IAP	RNAV (RNP) RWY 12			KEAT	WENATCHEE	WA (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, EN ROUTE HIGH, SPECIAL IAP, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING
 ADDED CONTROLLER HIGH AND SPECIAL IAP TO REQUIRED CHARTING
 ADDED SPECIALS RNAV (RNP) M RWY 12 AND RNAV (RNP) M RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
 Apr 14, 2023

QUALITY
 13
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFDSN

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472030.99N/1200821.58W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE

RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT

KEAT
KEAT

CITY

WENATCHEE
WENATCHEE

STATE

WA (US)
WA (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED SPECIAL RNAV (RNP) RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFGBT

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472938.14N/1201410.00W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT
KEAT
KEAT

CITY
WENATCHEE
WENATCHEE

STATE
WA (US)
WA (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED SPECIAL RNAV (RNP) M RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFVFW

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472312.62N/1200833.60W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT
KEAT
KEAT

CITY
WENATCHEE
WENATCHEE

STATE
WA (US)
WA (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED SPECIAL RNAV (RNP) M RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

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Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CUKSI

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472151.77N/1200827.58W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT
KEAT
KEAT

CITY
WENATCHEE
WENATCHEE

STATE
WA (US)
WA (US)

REQUIRED CHARTING: IAP, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED RNAV (RNP) M RWY 30 SPECIAL IAP AT KEAT TO FIX USE
ADDED SPECIAL IAP TO REQUIRED CHARTING

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE:

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

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DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FEXUB

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 473114.06N/1201004.72W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT
KEAT
KEAT

CITY
WENATCHEE
WENATCHEE

STATE
WA (US)
WA (US)

REQUIRED CHARTING: IAP, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED SPECIAL IAP TO REQUIRED CHARTING
ADDED SPECIAL RNAV (RNP) M RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

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Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: FITGA

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472448.90N/1204757.85W

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	WENATCHEE	EAT	VOR/DME	L	257.21	272.21	24.00	24.00		12000	17500

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 12			KEAT	WENATCHEE	WA (US)
EN ROUTE	V120	1				WA (US)
IAP	VOR-B	1		KEAT	WENATCHEE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED WP TO FIX TYPE
CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING
ADDED SPECIAL IAP TO REQUIRED CHARTING
ADDED RNAV (RNP) M RWY 12 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KULOC

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472722.40N/1201730.08W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT
KEAT
KEAT

CITY
WENATCHEE
WENATCHEE

STATE
WA (US)
WA (US)

REQUIRED CHARTING: IAP, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED RNAV (RNP) M RWY 30 AT KEAT TO FIX USE
ADDED SPECIAL IAP TO REQUIRED CHARTING

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: QUINT

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 471250.29N/1195431.59W

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	MRA	MAA
1	EPHRATA	EPH	VORTAC	VH	222.75	243.75	22.11	22.11	4000	17500
2	WENATCHEE	EAT	VOR/DME	L	117.00	132.00	16.63	16.63	4000	17500
3	MOSES LAKE	MWH	VOR/DME	H	252.66	270.66	24.21	24.21	4000	17500

FIX RESTRICTIONS:

MCA V336 6500 SOUTHWEST BOUND

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	SE	EAT	VOR/DME	117.00	297.00	R	1		4000	10000	5	10
2	SE		WP	117.00	297.00	R		4	4000	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	471754.00N/1195306.00W	2254	4E
2	200	AAO	471754.00N/1195306.00W	2254	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

EPHRATA (FAC 1) AND WENATCHEE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
FIX MAKEUP USING FACS 1 AND 3 DOES NOT MEET TERPS PARA 1761(A)(1) CRITERIA
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	RNAV (RNP) M RWY 12		2	KEAT	WENATCHEE	WA (US)
SPECIAL IAP	RNAV (RNP) M RWY 30		2	KEAT	WENATCHEE	WA (US)
DP	OFARO (RNAV)			KEAT	WENATCHEE	WA (US)
EN ROUTE	T261					(US)
EN ROUTE	V336	1, 2				(US)
EN ROUTE	V357	1, 2, 3				(US)
IAP	ILS OR LOC RWY 32R	1, 2, 3		KMWH	MOSES LAKE	WA (US)
IAP	NDB RWY 32R	1, 2, 3		KMWH	MOSES LAKE	WA (US)
IAP	RNAV (GPS) Y RWY 14L			KMWH	MOSES LAKE	WA (US)
IAP	ILS Y RWY 12	1, 2, 3	1	KEAT	WENATCHEE	WA (US)
IAP	RNAV (GPS) Y RWY 30			KEAT	WENATCHEE	WA (US)
IAP	RNAV (RNP) RWY 12		2	KEAT	WENATCHEE	WA (US)
IAP	RNAV (RNP) Z RWY 30		2	KEAT	WENATCHEE	WA (US)
IAP	VOR-A	1, 2, 3		KEAT	WENATCHEE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING
ADDED SPECIALS RNAV (RNP) M RWY 12 AND RNAV (RNP) M RWY 30 AT KEAT TO FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER

Apr 14, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: WENATCHEE VOR/DME **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 472358.89N/1201238.98W **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	WENATCHEE	EAT	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V25 7400 SOUTHBOUND
MCA V120 8200 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	E	EAT	VOR/DME	077.00	257.00	R	1	5000 10000	5 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	472837.23N/1201246.60W	3807	2C
1	310	AAO	471733.00N/1201630.00W	4590	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	270
1	310	297

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-B	KEAT	WENATCHEE	WA (US)
1	WENATCHEE (OBSTACLE)	KEAT	WENATCHEE	WA (US)
1	VOR-A	KEAT	WENATCHEE	WA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
EAT VOR MAGVAR: 15E, 2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
SPECIAL IAP	RNAV (RNP) M RWY 12			KEAT	WENATCHEE	WA (US)
SPECIAL IAP	RNAV (RNP) M RWY 30			KEAT	WENATCHEE	WA (US)
DP	PAINE			KPAE	EVERETT	WA (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	OFARO (RNAV)			KEAT	WENATCHEE	WA (US)
DP	WENATCHEE (OBSTACLE)		1	KEAT	WENATCHEE	WA (US)
DP	ZARLO (RNAV)			KEAT	WENATCHEE	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
EN ROUTE	V120					WA (US)
EN ROUTE	V25					WA (US)
EN ROUTE	V357					WA (US)
IAP	ILS Y RWY 12			KEAT	WENATCHEE	WA (US)
IAP	ILS Z RWY 12			KEAT	WENATCHEE	WA (US)
IAP	RNAV (GPS) Z RWY 30			KEAT	WENATCHEE	WA (US)
IAP	VOR-A		1	KEAT	WENATCHEE	WA (US)
IAP	VOR-B		1	KEAT	WENATCHEE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

IN FIX USE AT KEAT: CHANGED RNAV (GPS) RWY 30 TO RNAV (GPS) Z RWY 30, ADDED ILS Z RWY 12, AND SPECIALS RNAV (RNP) M RWY 12 AND RNAV (RNP) M RWY 30.
ADDED CONTROLLER LOW AND SPECIAL IAP TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

QUALITY
13
CHECKED

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

Digitally signed by
DONALD H LANIER
Apr 14, 2023

QUALITY
13
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YURLU

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 472215.44N/1200957.97W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
SPECIAL IAP
SPECIAL IAP
IAP

USE TITLE
RNAV (RNP) M RWY 12
RNAV (RNP) M RWY 30
RNAV (RNP) Z RWY 30

FAC

PAT

AIRPORT IDENT

KEAT
KEAT
KEAT

CITY

WENATCHEE
WENATCHEE
WENATCHEE

STATE

WA (US)
WA (US)
WA (US)

REQUIRED CHARTING: IAP, SPECIAL IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

ADDED SPECIALS RNAV (RNP) M RWY 12 AND RNAV (RNP) M RWY 30 AT KEAT TO FIX USE
ADDED SPECIAL IAP TO REQUIRED CHARTING

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A441

NAME: CHRIS MCCARTHY

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A441

NAME: DONALD LANIER

SIGNATURE:

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DONALD H LANIER

Apr 14, 2023

QUALITY
13
CHECKED