

RADIO FIX AND HOLDING DATA RECORD

NAME: ANNEM

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 464141.32N/1113046.13W

TYPE: 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	GREAT FALLS	GTF	VORTAC	H	169.24	185.24	45.52	45.52		12000	17500
2	HELENA	HLN	VORTAC	H	061.67	073.67	18.96	18.96		10200	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GTF	VORTAC	R-169	46	12000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ATC COORDINATION FIX

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V113	1, 2				(US)
EN ROUTE	V536	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "57.67" TO "61.67"
2. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW"
3. REMOVED "ESV GTF R-169 120-175/46NM" AND "ENROUTE: V113, V536" FROM THE REMARKS.
4. ADDED GTF ESV TO THE EXPANDED SERVICE VOLUME SECTION.
5. ADDED FIX USE "V113" AND "V536"
6. ADDED FIX TYPE "INT"
7. ADDED FACILITY MAKE-UP FACILITIES DIST FROM FAC NM; FAC 1 "45.52" AND FAC 2 "18.96"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA

Feb 02, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: EVVER

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 461812.28N/1122232.20W

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	BOZEMAN	BZN	VOR/DME	H	283.88	301.88	59.77	59.77		11000	17500
2	COPPERTOWN	CPN	VOR/DME	L	027.46	043.46	22.49	22.49		10800	17500
3	HELENA	HLN	VORTAC	VH	212.03	224.03		25.26		10800	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BZN	VOR/DME	R-284	60	11000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BOZEMAN (FAC 1) AND COPPERTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V113	1, 2				MT (US)
EN ROUTE	V343	1, 2				MT (US)
IAP	ILS OR LOC RWY 15	1, 2, 3		KBTM	BUTTE	MT (US)
IAP	RNAV (GPS) RWY 15			KBTM	BUTTE	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 3 MAG RAD. FROM "208.03" TO "212.03"
2. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA

Feb 02, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: ICUBI

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 463639.71N/1113233.81W

TYPE: 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	HELENA	HLN	VORTAC	H	077.00	089.00	16.99	16.99		9400	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-247	1				MT (US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 1 MAG RAD. FROM "073" TO "077"
2. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW"
3. ADDED FIX MAKE-UP FACILITIES DIST FROM FAC NM "16.99"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Feb 02, 2023



RADIO FIX AND HOLDING DATA RECORD

NAME: PONVE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465950.18N/1114218.54W

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	GREAT FALLS	GTF	VORTAC	H	187.90	203.90	29.70	29.70		10000	17500
2	HELENA	HLN	VORTAC	VH	011.50	023.50	25.57	25.57		10000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ATC COORDINATION FIX.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V21	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "007.5" TO "011.5"
2. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW"
3. REMOVED FIX USE: "IAP, TRANSFER CONTROL POINT, GREAT FALLS, MT" AND "IAP, TRANSFER CONTROL POINT, HELENA, MT"
4. ADDED REMARK "ATC COORDINATION FIX."
5. REMOVED FIX TYPE "INT"
6. ADDED FIX MAKE-UP FACILITIES DIST FROM FAC NM; FAC 1 "29.70" AND FAC 2 "25.57"

02/10/23: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 02/02/23.

1. REMOVED IAP FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Feb 10, 2023

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ROSOE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 471908.51N/1120530.62W

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	GREAT FALLS	GTF	VORTAC	H	238.41	254.41	28.80	28.80		8000	17500
2	HELENA	HLN	VORTAC	VH	340.47	352.47	43.13	43.13		9500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
HLN	VORTAC	R-336	44	9500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

GREAT FALLS (FAC 1) AND HELENA (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T317					(US)
EN ROUTE	V187	1, 2				(US)
EN ROUTE	V365	1, 2				(US)
IAP	RNAV (GPS) Y RWY 3			KGTF	GREAT FALLS	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "336.47" TO "340.47"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Feb 02, 2023

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SCAAT

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 463716.16N/1122919.19W

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	GREAT FALLS	GTF	VORTAC	H	206.00	222.00	66.54	66.54	13000	17500
2	HELENA	HLN	VORTAC	VH	260.42	272.42	22.15	22.15	9200	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
GTF	VORTAC	R-206	67	13000	17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V257	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. HOLDING PATTERN ASSOCIATION 1, WP, 04/20/2023 DELETED
2. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "256.42" TO "260.42"
3. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW" AND REMOVED "IAP"
4. REMOVED FIX USE "IAP, HELENA REGIONAL - RNAV (GPS) RWY 9, KHLN, HELENA, MT" AND EN ROUTE "V2"
5. REMOVED FIX MAKE-UP FAC 3 "AXOBE, 262.44/10.64, 17500"
6. ADDED ESV FOR "GTF VORTAC R-206 67 13000 17500"
7. ADDED FIX MAKE-UP FACILITIES DIST FROM FAC NM; FAC 1 "66.54" AND FAC 2 "22.15"
8. UPDATED FIX MAKE-UP FACILITIES MRA FOR FAC 1 FROM "9800" TO "13000"
9. ADDED FIX TYPE "INT"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA

Feb 02, 2023

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TUCOK

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470448.13N/1115354.39W

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	GREAT FALLS	GTF	VORTAC	H	206.00	222.00	29.80	29.80		8500	17500
2	HELENA	HLN	VORTAC	VH	352.54	004.54	28.50	28.50		10000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ATC COORDINATION FIX.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V257	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "348.54" TO "352.54"
2. UPDATED REQUIRED CHARTING FROM "CONTROLLER" TO "CONTROLLER LOW" AND REMOVED "IAP"
3. REMOVED FIX USE: "IAP, TRANSFER CONTROL POINT, GREAT FALLS, MT" AND "IAP, TRANSFER CONTROL POINT, HELENA, MT"
4. ADDED REMARK "ATC COORDINATION FIX."
5. ADDED FIX MAKE-UP FACILITIES DIST FROM FAC NM; FAC 1 "29.80" AND FAC 2 "28.50"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by

CASIMIR L TABAKA

Feb 02, 2023

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YOSWO

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 463654.37N/1103650.58W

TYPE: 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	BILLINGS	BIL	VORTAC	VH	287.00	301.00	95.99	95.99		13000	17500
2	HELENA	HLN	VORTAC	VH	077.00	089.00	55.41	55.41		13000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
HLN	VORTAC	R-073	56	13000	17500
BIL	VORTAC	R-287	96	13000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BILLINGS (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V247	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/20/2023

REASON FOR REVISION:

1. UPDATED FACILITY MAKE-UP FOR FAC 2 MAG RAD. FROM "073.00" TO "077.00"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: CHRISTOPHER SCHONES

APPROVED BY:

DATE: 04/20/2023

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

Digitally signed by
CASIMIR L TABAKA
Feb 02, 2023

