

RADIO FIX AND HOLDING DATA RECORD

NAME: HEBIV

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455529.28N/1114331.06W

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 FAC NM	FAC FEET	MRA	MAA
1	WHITEHALL	HIA	VOR/DME	H	060.36	078.36	19.00	19.00		9400	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 12	1		KBZN	BOZEMAN	MT (US)
IAP	RNAV (GPS) Y RWY 12			KBZN	BOZEMAN	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 06/30/2011

REASON FOR REVISION:

ADDED DME TO TYPE FIX
ADDED FAC 1
UPDATED FIX USE

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 02/16/2011

OFFICE: AVN-130

NAME: CHARLES ERICKSON

APPROVED BY:

DATE: 05/05/2011

OFFICE: AVN-130

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: BZN TOWER
OTHER: GTF FSS

RADIO FIX AND HOLDING DATA RECORD

NAME: KICDO **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 460056.00N/1111723.41W **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	MRA	MAA
								NM	FEET	
1	BOZEMAN	BZN	VOR/DME	DH	320.00	338.00	15.00	15.00	9400	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 12	1		KBZN	BOZEMAN	MT (US)
IAP	VOR/DME RWY 12	1		KBZN	BOZEMAN	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 08/10/2023

REASON FOR REVISION:

CHARTING: ADDED ENROUTE LOW AND CONTROLLER LOW.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A422	NAME: JAMES HAUGH
APPROVED BY:	DATE: 08/10/2023	OFFICE: AJV-A422	NAME: RAKE MCGRAW
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: THESE **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 455701.59N/1113227.10W **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	VH	283.88	301.88	19.00	19.00	8000	17500
2	WHITEHALL	HIA	VOR/DME	VH	060.36	078.36	26.87	26.87	8000	17500

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		WP	254.31	074.31	R	7	8300 17500	10 17
2	W		WP	274.98	094.98	R	7	10000 17500	10 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	455452.30N/1115300.00W	6645	6C
2	230	AAO	460009.00N/1120027.00W	7891	4B
2	310	AAO	455948.00N/1120142.00W	8327	4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	76
2	230	240
2	310	300

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) Y RWY 30	KBZN	BOZEMAN	MT (US)
2	RNAV (RNP) Z RWY 30	KBZN	BOZEMAN	MT (US)

REMARKS:

BOZEMAN (FAC 1) AND WHITEHALL (FAC 2) USED TO ESTABLISH FIX COORDINATES.
 PAT 2 230 KTS CONTROLLING OBST LOCATED 11362 FT INTO SECONDARY AREA (6923 PRIMARY EQUIVALENT).
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V343	1, 2				MT (US)
IAP	ILS OR LOC RWY 12	1, 2		KBZN	BOZEMAN	MT (US)
IAP	RNAV (GPS) Y RWY 12		1	KBZN	BOZEMAN	MT (US)
IAP	RNAV (GPS) Y RWY 30		2	KBZN	BOZEMAN	MT (US)
IAP	RNAV (RNP) Z RWY 12		2	KBZN	BOZEMAN	MT (US)
IAP	RNAV (RNP) Z RWY 30		2	KBZN	BOZEMAN	MT (US)
STAR	EATZZ (RNAV)			KBZN	BOZEMAN	MT (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

CHARTING: ADDED STAR
 FIX USE: ADDED KBZN EATZZ (RNAV) STAR, DELETED KBZN VOR/DME RWY 12. CHANGED KBZN RNAV (RNP) RWY 30 TO RNAV (RNP) Z RWY 30
 DELETED DOCKET NUMBER.
 CHANGED FAC 1 & 2 CLASS FROM H TO VH.
 DELETED HOLDING PAT 3.
 ADDED HOLDING PAT 2 ASSOCIATION TO KBZN RNAV (RNP) Z RWY 30.
 UPDATED PAT 2 OBS HEIGHT FROM 7878 TO 7891, AND AC FROM 4E TO 4B.
 UPDATED PAT 2, 310 KIAS OBS FROM 8314 AAO 460257.00N/1120215.00W 4E TO 8327 AAO 455948.00N/1120142.00W 4B.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 **NAME:** JOSEPH ZEDER
APPROVED BY: **DATE:** 01/25/2024 **OFFICE:** AJV-A432 **NAME:** CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WHITEHALL VOR/DME **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 455142.44N/1121010.59W **TYPE:**
AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:		IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC		MRA	MAA
FAC	NAME							NM	FEET		
1	WHITEHALL	HIA	VOR/DME	VH							45000

FIX RESTRICTIONS:
 MCA V86 9100 WESTBOUND
 MCA V21 9300 NORTHBOUND

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

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	E	HIA	VOR/DME	077.90	257.90	R	1		9500	17500	9	13
2	E	HIA	VOR/DME	095.10	275.10	R	1		10500	17500	9	13
3	N		WP	010.52	190.52	R		7	10600	17500	10	14

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	230	AAO	455812.00N/1120051.00W	8042	4E
2	230	AAO	454251.00N/1120245.00W	9452	4E
3	230	AAO	460506.00N/1120345.00W	8793	4E
3	310	AAO	454436.00N/1122624.00W	10040	4E

PRECIPITOUS TERRAIN ADDITIONS:		
PAT	SPEED	ADDITION
3	230	380
3	310	380

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:				
PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	BRIDGES (RNAV)	KRVF	TWIN BRIDGES	MT (US)

REMARKS:
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PAT 1 AND 2 USED BY ZLC.
 ASSIGNED FACILITY MAGVAR: 18 DEGREES EAST/1975

FIX USE:		FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE	USE TITLE					
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BGSKY (RNAV)			KBZN	BOZEMAN	MT (US)
DP	BOZEMAN			KBZN	BOZEMAN	MT (US)
DP	MEADO (RNAV)			KBZN	BOZEMAN	MT (US)
DP	WHITEHALL			KBZN	BOZEMAN	MT (US)
DP	ENNIS (RNAV)			KEKS	ENNIS	MT (US)
DP	BILLINGS			6S8	LAUREL	MT (US)
DP	BRIDGES (RNAV)		3	KRVF	TWIN BRIDGES	MT (US)
EN ROUTE	J151					(US)
EN ROUTE	J16					(US)
EN ROUTE	V21					(US)
EN ROUTE	V86					(US)
IAP	RNAV (GPS)-B			3U3	ANACONDA	MT (US)
IAP	VOR-A			3U3	ANACONDA	MT (US)
IAP	ILS OR LOC RWY 12			KBZN	BOZEMAN	MT (US)
IAP	RNAV (GPS) Y RWY 12			KBZN	BOZEMAN	MT (US)
IAP	VOR RWY 12			KBZN	BOZEMAN	MT (US)
IAP	ILS OR LOC RWY 15			KBTM	BUTTE	MT (US)
IAP	RNAV (GPS) RWY 17		3	KDLN	DILLON	MT (US)
IAP	RNAV (GPS) RWY 35		3	KDLN	DILLON	MT (US)
IAP	RNAV (GPS) RWY 16			KEKS	ENNIS	MT (US)
IAP	RNAV (RNP) Y RWY 27			KHLN	HELENA	MT (US)
IAP	RNAV (RNP) Z RWY 27			KHLN	HELENA	MT (US)
IAP	RNAV (GPS) RWY 17			KRVF	TWIN BRIDGES	MT (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 03/21/2024

REASON FOR REVISION:

1. UPDATED HOLDING PATTERNS 1 AND 2 LEG TIME FROM "1-1 1/2" TO "1".
2. UPDATED FIX USE FOR 3U3 FROM "VOR/DME OR GPS-A" TO "VOR-A" AND "RNAV (GPS)-B".
3. REMOVED TEERX (RNAV) DEPARTURE KBZN.
4. ADDED BGSKY (RNAV) AND MEADO (RNAV) DEPARTURES KBZN.
5. REMOVED RNAV (RNP) RWY 30 AND RNAV (RNP) Z RWY 12 KBZN.

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

AJV-A422

NAME: DANIEL WESTON**APPROVED BY:****DATE:** 03/21/2024**OFFICE:** AJV-A33**NAME:** JOHN BORDY**SIGNATURE:**