

## RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 455122.64N/1085603.02W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** MODIFY

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

**REMARKS:**  
FIX RELOCATION AND NAME RETENTION FOR ATC OPERATIONAL NECESSITY IAW ORDER JO 7400.2.

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
IAP	ILS Y OR LOC Y RWY 10L			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L			KBIL	BILLINGS	MT (US)
STAR	YLSTN (RNAV)			KBIL	BILLINGS	MT (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 12/07/2017

**REASON FOR REVISION:**  
FIX MOVED 3.76 NM W FROM 455014.68N/10855.38W.  
ADDED FIX RELOCATION REMARK.  
CHARTING: ADDED IAP.  
FIX USE: ADDED KBIL RNAV IAP AND KBIL ILS Y OR LOC Y RWY 10L.

**DEVELOPED BY:** **DATE:** 06/26/2017 **OFFICE:** AJV-5422 **NAME:** DAVID DOWLING

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:** **NFDC**  
**FPO:** WST  
**ARTCC:** ZLC  
**ATC FACILITY:** BIL APP CON  
**OTHER:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: HEXOS

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455041.58N/1084014.20W

TYPE: WP, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	BILLINGS	I-BIL	LOC/DME		281.71	291.71	5.04	7.20	43773	5300	7900

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI ILS Z OR LOC Z RWY 10L	1		KBIL	BILLINGS	MT (US)
IAP	ILS Y OR LOC Y RWY 10L	1		KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L			KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/07/2017

DEVELOPED BY: DATE: 07/28/2017

OFFICE: AJV-5432

NAME: VICTOR BOONE

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZLC  
ATC FACILITY: BIL  
OTHER:

## RADIO FIX AND HOLDING DATA RECORD

**NAME:** BILLINGS VORTAC      **STATE:** MT      **COUNTRY:** US      **ICAO REGION CODE:** K1  
**LATITUDE/LONGITUDE:** 454830.81N/1083728.73W      **TYPE:**  
**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	BILLINGS	BIL	VORTAC	H							45000

**FIX RESTRICTIONS:**

MCA V187 6500 SOUTHBOUND  
 MCA V465 7000 SOUTHBOUND

**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	NE	BIL	VORTAC	028.00	208.00	R	1-1 1/2	6300 20000	8 17
2	W	BIL	VORTAC	252.00	072.00	R	1	6000 14000	7 10
3	SE	BIL	VORTAC	123.00	303.00	R	1-1 1/2	6000 20000	7 17

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	455142.00N/1084600.00W	4462	4E
2	230	AAO	454315.00N/1085457.00W	4580	4E
2	310	AAO	454315.00N/1085457.00W	4580	4E
3	230	TOWER (30-000339)	454535.06N/1082702.22W	4261	1A

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

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

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 28R	KBIL	BILLINGS	MT (US)
2	VOR-A	KBIL	BILLINGS	MT (US)
2	VOR/DME RWY 28R	KBIL	BILLINGS	MT (US)
2	TAKEOFF MINIMUMS	K6S8	LAUREL	MT (US)
2	HI VOR/DME OR TACAN RWY 28R	KBIL	BILLINGS	MT (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 BIL VORTAC MAG VAR: 1990/E14.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BOBKT (RNAV)			KBZN	BOZEMAN	MT (US)
DP	BILLINGS			K6S8	LAUREL	MT (US)
DP	TAKEOFF MINIMUMS		2	K6S8	LAUREL	MT (US)
DP	CASPER			KCPR	CASPER	WY (US)
EN ROUTE	J13					(US)
EN ROUTE	J136					(US)
EN ROUTE	J151					(US)
EN ROUTE	J16					(US)
EN ROUTE	J203					(US)
EN ROUTE	J34					(US)
EN ROUTE	J713					(US)
EN ROUTE	V187					(US)
EN ROUTE	V2					(US)
EN ROUTE	V247					(US)
EN ROUTE	V465					(US)
EN ROUTE	V611					(US)
EN ROUTE	V85					(US)
EN ROUTE	V86					(US)
IAP	HI VOR/DME OR TACAN RWY 28R		2	KBIL	BILLINGS	MT (US)
IAP	ILS OR LOC RWY 10L		3	KBIL	BILLINGS	MT (US)
IAP	ILS OR LOC RWY 28R		2	KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 25			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 7			KBIL	BILLINGS	MT (US)
IAP	VOR-A		2	KBIL	BILLINGS	MT (US)
IAP	VOR/DME RWY 28R		2	KBIL	BILLINGS	MT (US)
IAP	GPS RWY 6			KM46	COLSTRIP	MT (US)
IAP	RNAV (GPS) RWY 22			K6S8	LAUREL	MT (US)
IAP	VOR RWY 22		1	K6S8	LAUREL	MT (US)
IAP	RNAV (GPS) RWY 13			KPOY	POWELL	WY (US)

**REVIEW/INQUIRY**

STAR	BGHRN (RNAV)	KBIL	BILLINGS	MT (US)
STAR	CRAZI (RNAV)	KBIL	BILLINGS	MT (US)
STAR	KUSTR (RNAV)	KBIL	BILLINGS	MT (US)
STAR	YLSTN (RNAV)	KBIL	BILLINGS	MT (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 22

**DATE OF REVISION:** 12/07/2017

**REASON FOR REVISION:**

CHANGED V-187 SOUTHBOUND MCA FROM 6700 TO 6500, PER SKYVECTOR DEPICTION.

ADDED BIL VORTAC MAG VAR REMARK.

KBIL FIX USE: ADDED BGHRN, CRAZI, KUSTR, YLSTN STARS; REMOVED NDB RWY 10L AND RNAV (GPS) Y RWY 28R; REMOVED Y DESIGNATION FROM RNAV (GPS) Y RWY 10L; REMOVED DME FROM ILS OR LOC/DME RWY 28R.

**DEVELOPED BY:**      **DATE:** 06/21/2017      **OFFICE:** AJV-5422      **NAME:** DAVID DOWLING

**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5420      **NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
                         **FPO:** WST  
                         **ARTCC:** ZLC  
                         **ATC FACILITY:** BIL APP CON  
                         **OTHER:**

**REVIEW/INQUIRY**

## RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 455619.39N/1085620.05W **TYPE:** WP

**AIRSPACE DOCKET:** **FIX TYPE OF ACTION:** ESTABLISH

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y OR LOC Y RWY 10L			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L			KBIL	BILLINGS	MT (US)
STAR	CRAZI (RNAV)			KBIL	BILLINGS	MT (US)

**REQUIRED CHARTING:** STAR, IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG **DATE OF REVISION:** 12/07/2017

**DEVELOPED BY:** **DATE:** 06/22/2017 **OFFICE:** AJV-5422 **NAME:** DAVID DOWLING

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: WST  
ARTCC: ZLC  
ATC FACILITY: BIL APP CON  
OTHER: