

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 455303.81N/1082531.12W **TYPE:** WP

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

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
IAP	RNAV (RNP) Z RWY 28R			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:** 06/21/2017 **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:

RADIO FIX AND HOLDING DATA RECORD

NAME: DOPIC

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454016.66N/1081821.47W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

**FIX USE:
USE TYPE**

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

IAP ILS OR LOC RWY 28R
IAP RNAV (GPS) Y RWY 28R
IAP RNAV (RNP) Z RWY 28R

KBIL BILLINGS
KBIL BILLINGS
KBIL BILLINGS

MT (US)
MT (US)
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 12/07/2017

DEVELOPED BY: DATE: 07/18/2017

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: GRYNT

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 452907.34N/1085448.51W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR

USE TITLE
YLSTN (RNAV)

FAC

PAT

AIRPORT IDENT
KBIL

CITY
BILLINGS

STATE
MT (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

CHARTING: REMOVED IAP.

FIX USE: REMOVED KBIL RNAV IAP'S.

DEVELOPED BY:

DATE: 07/11/2017

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: GRYZZ **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 453751.19N/1082311.06W **TYPE:** WP

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

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28R			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) Y RWY 28R			KBIL	BILLINGS	MT (US)
IAP	RNAV (RNP) Z RWY 28R			KBIL	BILLINGS	MT (US)
STAR	YLSTN (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:** 06/26/2017 **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

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RADIO FIX AND HOLDING DATA RECORD

NAME: HYTES

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455248.90N/1082439.75W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR

USE TITLE
KUSTR (RNAV)

FAC

PAT

AIRPORT IDENT
KBIL

CITY
BILLINGS

STATE
MT (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

REMOVED FROM FIX USE: KBIL CRAZI STAR; RNAV (RNP) Z RWY 10L; RNAV (RNP) Z 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:

RADIO FIX AND HOLDING DATA RECORD

NAME: KROWE STATE: MT COUNTRY: US ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 453252.97N/1081250.35W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
USE TYPE						
STAR	BGHRN (RNAV)			KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
CHARTING: REMOVED IAP.
FIX USE: REMOVED KBIL RNAV (RNP) Z RWY 28R.

DEVELOPED BY: DATE: 07/10/2017 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: KUSTR

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455638.94N/1080126.72W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
STAR

USE TITLE
KUSTR (RNAV)

FAC

PAT

AIRPORT IDENT
KBIL

CITY
BILLINGS

STATE
MT (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

CHARTING: REMOVED IAP.

FIX USE: REMOVED KBIL RNAV (RNP) Z RWY 28R.

DEVELOPED BY:

DATE: 07/10/2017

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: PICTO

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454625.67N/1082455.39W

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	BILLINGS	I-BMO	LOC/DME		101.75	111.75	6.49	6.48	39400	5000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28R	1		KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) Y RWY 28R			KBIL	BILLINGS	MT (US)
IAP	RNAV (RNP) Z RWY 28R			KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

MOVED FIX 0.76 NM SOUTHEAST TO 8260.54 CALCULATED LOCATION.
REMOVED REMARK: IPDS COORDINATES: 454642.441/1082555.570.
ADDED KBIL ILS OR LOC RWY 28 R TO FIX USE.
ADDED KBIL RNAV (GPS) Y RWY 28R TO FIX USE.
ADDED I-BMO AS FAC 1.

DEVELOPED BY: DATE: 07/17/2017

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: PILLR

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454541.96N/1081318.46W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

IAP ILS OR LOC RWY 28R
IAP RNAV (GPS) Y RWY 28R
IAP RNAV (RNP) Z RWY 28R
STAR KUSTR (RNAV)

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

KBIL BILLINGS
KBIL BILLINGS
KBIL BILLINGS
KBIL BILLINGS

MT (US)
MT (US)
MT (US)
MT (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

CHARTING: ADDED IAP.

ADDED FIX USE: ALL KBIL RWY 28R PROCEDURES.

DEVELOPED BY:

DATE: 07/10/2017

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: SUTLE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454341.78N/1081512.73W

TYPE: RADAR, 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	BILLINGS	I-BMO	LOC/DME		101.75	111.75	13.82	13.81		6000	8000

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28R	1		KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

REMOVED KBIL RNAV (RNP) Z RWY 28R.
REMOVED KBIL RNAV (GPS) Y RWY 28R.
UPDATED KBIL APPROACH NAME ILS OR LOC/DME RWY 28R TO ILS OR LOC RWY 28R.
REMOVED HOLDING PAT 1.
REMOVED "HOLDING LIMITED TO ESTABLISHED PATTERN" RESTRICTION.
REMOVED REMARK "PRECIPITOUS TERRAIN EVALUATION COMPLETED".
UPDATED FAC1 MAG BRG FROM 97.75 TO 101.75 DUE TO MAGVAR.
REMOVED "WP" FROM FIX TYPE.

DEVELOPED BY:

DATE: 07/26/2017

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: WIBON **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 455253.96N/1084813.24W **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	BILLINGS	I-BIL	LOC/DME		281.71	291.71	11.04	13.20		6000	7900

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	281.54	101.54	R		5	5900	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	455842.00N/1085624.00W	4492	3E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS Y OR LOC Y RWY 10L	1		KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L		1	KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) Y RWY 28R		1	KBIL	BILLINGS	MT (US)
IAP	RNAV (RNP) Z RWY 28R		1	KBIL	BILLINGS	MT (US)
STAR	CRAZI (RNAV)			KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

ADDED I-BIL AS FAC 1.
 MOVED FIX 14.07 FT SW TO RUNWAY CENTERLINE.
 UPDATED HOLDING PAT 1 FROM 097.54 TO 101.54 DUE TO MAGVAR.
 RAISED HOLDING PAT 1 MIN/MAX TEMPLATE FROM 6/10 TO 6/6.
 UPDATED HOLDING PAT 1 CONTROLLING OBS FROM 4561 AAO TO 4492 AAO.
 ADDED KBIL RNAV (RNP) Z RWY 28R TO FIX USE.
 ADDED KBIL ILS Y OR LOC Y RWY 10L TO FIX USE.
 REMOVED "Y" DESIGNATOR FROM KBIL RNAV (GPS) RWY 10L.
 ADDED DME FIX TYPE.

DEVELOPED BY: **DATE:** 07/18/2017 **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: YIGUD

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454509.82N/1082025.42W

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	BILLINGS	I-BMO	LOC/DME		101.75	111.75	9.88	9.88		6000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28R	1		KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) Y RWY 28R			KBIL	BILLINGS	MT (US)
IAP	RNAV (RNP) Z RWY 28R			KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

ADDED KBIL RNAV (GPS) Y RWY 28R TO FIX USE.
ADDED KBIL ILS OR LOC RWY 28R TO FIX USE.
ADDED I-BMO AS FAC 1.
ADDED DME TO FIX TYPE.

DEVELOPED BY: DATE: 07/26/2017

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: