

# RADIO FIX AND HOLDING DATA RECORD

NAME: OXYIJ

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455318.14N/1084940.47W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX USE:  
USE TYPE  
IAP

USE TITLE  
ILS OR LOC RWY 10L

FAC

PAT

AIRPORT IDENT  
KBIL

CITY  
BILLINGS

STATE  
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/05/2012

DEVELOPED BY: DATE: 07/14/2011

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (KYLE THOMPSON)

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
23  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SAIGE LOM STATE: MT COUNTRY: US ICAO REGION CODE: K1  
 LATITUDE/LONGITUDE: 455105.85N/1084141.46W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: CANCEL

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SAIGE	BI	LOM							5700	14000

HOLDING: HOLDING TYPE OF ACTION: CANCEL

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	W	BI	LOM	277.72	097.72	R	1		6000	14000	5	13

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	455200.00N/1084639.00W	4482	4E
1	230	AAO	455200.00N/1084639.00W	4482	4E
1	265	AAO	454845.00N/1090112.00W	4525	4E
1	310	AAO	454751.00N/1090630.00W	4800	4E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC/DME RWY 28R	KBIL	BILLINGS	MT (US)

## REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE SAIGE LOM.  
 ACTUAL FACILITY LOCATION IS 455108.01N/1084140.24W.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI ILS OR LOC RWY 10L	1	1	KBIL	BILLINGS	MT (US)
IAP	ILS OR LOC/DME RWY 10L	1	1	KBIL	BILLINGS	MT (US)
IAP	ILS OR LOC/DME RWY 28R	1	1	KBIL	BILLINGS	MT (US)
IAP	NDB RWY 10L	1	1	KBIL	BILLINGS	MT (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 04/05/2012

## REASON FOR REVISION:

- 1) MOVED FIX 269 FT EAST; UPDATED COORDINATES.
- 2) INCREASED FAC 1 MRA FROM 5500 TO 5700.
- 3) ADDED HOLDING RESTRICTION: HOLDING LIMITED TO ESTABLISHED PATTERNS.
- 4) UPDATED PAT 1 CRS INBOUND FROM 097.61 TO 097.72.
- 5) UPDATED PAT 1, 200 AND 230 KIAS OBSTACLES
- 6) ADDED PAT 1, 265 AND 310 KIAS OBSTACLE
- 7) ADDED REMARK: PRECIPITOUS TERRAIN EVALUATION COMPLETED.
- 8) ADDED REMARK INDICATING COORDINATES REFLECTED LOCATION ON LOCALIZER ABEAM THE LOM.
- 9) UPDATED FIX USE.
- 10) UPDATED REQUIRED CHARTING.
- 11) ADDED ILS OR LOC/DME RWY 28R AT BIL TO PROCEDURES REQUIRING A C-I-H.

DEVELOPED BY: DATE: 07/12/2011 OFFICE: AJV-354 NAME: ADOLFO URRUTIA (KYLE THOMPSON)

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: PATRICK MULQUEEN

SIGNATURE:

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

QUALITY  
23  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZOBUM

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 454936.81N/1083620.70W

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	2.12	4.28		4260	7900

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## 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: 1

DATE OF REVISION: 12/07/2017

## REASON FOR REVISION:

REMOVED FAC 2.  
REMOVED "Y" DESIGNATOR FROM KBIL RNAV (GPS) RWY 10L.  
CHANGED FAC 1 MAG/TRUE BRG FROM 277.72/291.72 TO 291.71/281.71.  
MOVED FIX 4.29 FT SW TO RUNWAY CENTERLINE.  
ADDED 2.12 DME TO DIST FROM FAC 1.  
CHANGED KBIL HI ILS OR LOC RWY 10L TO HI ILS Z OR LOC RZ WY 10L.  
CHANGED KBIL ILS OR LOC RWY 10L TO ILS Y OR LOC Y RWY 10L.  
CHANGED FIX TYPE FROM "INT" TO "DME".

DEVELOPED BY:

DATE: 07/31/2017

OFFICE: AJV-5432

NAME: VICTOR BOONE (KYLE THOMPSON)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
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CHECKED