

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** APICI

**STATE:** MT

**COUNTRY:** US

**LATITUDE/LONGITUDE:** 463413.81N/1130454.43W

**TYPE:** WP

**AIRSPACE DOCKET:** 12-ANM-7

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS)-A

**FAC PAT**

**AIRPORT IDENT CITY**  
K38S DEER LODGE

**STATE**  
MT (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 01/10/2013

**DEVELOPED BY:** **DATE:** 03/01/2012

**OFFICE:** AJV-354

**NAME:** ADOLFO URRUTIA (RALPH DUMAR)

**APPROVED BY:** **DATE:** 10/15/2012

**OFFICE:** AJV-354

**NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**

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



## RADIO FIX AND HOLDING DATA RECORD

NAME: AYUNO

STATE: MT

COUNTRY: US

LATITUDE/LONGITUDE: 461600.66N/1124552.48W

TYPE: WP

AIRSPACE DOCKET: 12-ANM-7

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAPUSE TITLE  
RNAV (GPS)-A

FAC

PAT

AIRPORT IDENT  
K38SCITY  
DEER LODGESTATE  
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/10/2013

DEVELOPED BY: DATE: 03/13/2012

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (RALPH DUMAR)

APPROVED BY: DATE: 10/15/2012

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZLC  
ATC FACILITY:  
OTHER:QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CITSU

STATE: MT

COUNTRY: US

LATITUDE/LONGITUDE: 462246.89N/1124552.48W

TYPE: WP

AIRSPACE DOCKET: 12-ANM-7

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS)-A

FAC

PAT

AIRPORT IDENT  
K38S

CITY  
DEER LODGE

STATE  
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/10/2013

DEVELOPED BY:      DATE: 03/13/2012

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (RALPH DUMAR)

APPROVED BY:      DATE: 10/15/2012

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

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



## RADIO FIX AND HOLDING DATA RECORD

NAME: COPPERTOWN VOR/DME

STATE: MT

COUNTRY: US

LATITUDE/LONGITUDE: 460155.20N/1124451.10W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	COPPERTOWN	CPN	VOR/DME	L							17500

## FIX RESTRICTIONS:

MCA V257 10000 SOUTHEAST BOUND  
MCA V113 10200 SOUTHWEST BOUND

## 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	N	CPN	VOR/DME	346.00	166.00	L	1-1 1/2		9100	17500	9	16
2	NW	CPN	VOR/DME	307.00	127.00	L	1-1 1/2		9300	17500	9	16
3	N		WP	346.00	166.00	L		7	10000	17500	10	17
4	SE		WP	156.90	336.90	L		7	11100	17500	10	17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	460303.50N/1131125.20W	10841	6A
1	230	AAO	455603.00N/1124942.00W	8567	4E
1	310	AAO	411851.50N/1123309.30W	8660	6A
2	230	AAO	461506.00N/1130127.00W	9010	4E
3	230	AAO	455618.00N/1124909.00W	8084	4E
3	310	AAO	461851.50N/1123309.30W	8660	6A
4	230	AAO	454936.00N/1124809.00W	9636	6A

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
UPN	265	353
1	230	248
1	310	291
2	230	276
3	230	287
3	310	295
4	230	380

## REASON FOR NONSTANDARD HOLDING:

PAT 4 ATC  
PAT 2 ATC  
PAT 1 ATC  
PAT 3 ATC

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 14500 MSL.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES	K38S	DEER LODGE	MT (US)
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURE	KBTM	BUTTE	MT (US)
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURE	K3U3	ANACONDA	MT (US)
3	RNAV (GPS) Z RWY 15	KBTM	BUTTE	MT (US)

## REMARKS:

CHART PAT 1 ENROUTE LOW  
PAT 1 OBSTACLE LOCATED 5353.87' FROM INNER EDGE OF SECONDARY.  
PAT 2 OBSTACLE LOCATED 12167.41' FROM INNER EDGE OF SECONDARY.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES		1	K3U3	ANACONDA	MT (US)
DP	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURE		1	KBTM	BUTTE	MT (US)
EN ROUTE	V113					(US)
EN ROUTE	V257		1			(US)

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EN ROUTE	V86				(US)
IAP	VOR/DME OR GPS-A		K3U3	ANACONDA	MT (US)
IAP	ILS Y RWY15	1	KBTM	BUTTE	MT (US)
IAP	ILS Z RWY 15 (SPECIAL)	1	KBTM	BUTTE	MT (US)
IAP	LOC/DME RWY15	1	KBTM	BUTTE	MT (US)
IAP	RNAV (GPS) Z RWY 15	3	KBTM	BUTTE	MT (US)
IAP	VOR OR GPS-B	2	KBTM	BUTTE	MT (US)
IAP	VOR/DME OR GPS-A	2	KBTM	BUTTE	MT (US)
IAP	RNAV (GPS)-A	4	K38S	DEER LODGE	MT (US)
IAP	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES	1	K38S	DEER LODGE	MT (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 10

**DATE OF REVISION:** 01/10/2013

**REASON FOR REVISION:**

1. ADDED HOLDING PAT 4, CORRESPONDING CONTROLLING OBSTACLE AND PRECIPITOUS TERRAIN, AND REASON FOR NON-STANDARD HOLDING.
2. ADDED FIX USE FOR K38S, DEER LODGE, MT, RNAV (GPS)-A AND TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES.

**DEVELOPED BY:**                      **DATE:** 03/13/2012                      **OFFICE:** AJV-354                      **NAME:** ADOLFO URRUTIA (RALPH DUMAR)

**APPROVED BY:**                      **DATE:** 10/15/2012                      **OFFICE:** AJV-354                      **NAME:** DEZ SILAGYI

**SIGNATURE:**

**DISTRIBUTION:**      **NFDC**  
**FPO:** WST  
**ARTCC:** ZLC  
**ATC FACILITY:**  
**OTHER:**

QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** JOGUT

**STATE:** MT

**COUNTRY:** US

**LATITUDE/LONGITUDE:** 462928.75N/1124552.48W

**TYPE:** WP

**AIRSPACE DOCKET:** 12-ANM-7

**FIX TYPE OF ACTION:** ESTABLISH

**FIX USE:**  
**USE TYPE**  
IAP

**USE TITLE**  
RNAV (GPS)-A

**FAC**

**PAT**

**AIRPORT IDENT**  
K38S

**CITY**  
DEER LODGE

**STATE**  
MT (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

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**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
10  
CHECKED

## RADIO FIX AND HOLDING DATA RECORD

NAME: WAKIX

STATE: MT

COUNTRY: US

LATITUDE/LONGITUDE: 462607.21N/1132115.99W

TYPE: WP, DME

AIRSPACE DOCKET: 12-ANM-7

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	COPPERTOWN	CPN	VOR/DME	L	297.98	313.98	35.00	35.00		13000	17500

## HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

## 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	NW		WP	300.98	120.98	R		8	13000	17500	11	17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	462845.90N/1134051.50W	8668	6A
1	310	AAO	461712.00N/1130812.00W	9267	6A

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	329
1	310	380

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS)-A	K38S	DEER LODGE	MT (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V86	1		K38S	DEER LODGE	MT (US)
IAP	RNAV (GPS)-A		1	K38S	DEER LODGE	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

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ATC FACILITY:  
OTHER:

QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZISON

STATE: MT

COUNTRY: US

LATITUDE/LONGITUDE: 461117.78N/1124719.10W

TYPE: WP

AIRSPACE DOCKET: 12-ANM-7

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS)-A

FAC    PAT

AIRPORT IDENT    CITY  
K38S    DEER LODGE

STATE  
MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/10/2013

DEVELOPED BY:        DATE: 03/01/2012

OFFICE: AJV-354

NAME: ADOLFO URRUTIA (RALPH DUMAR)

APPROVED BY:        DATE: 10/15/2012

OFFICE: AJV-354

NAME: DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:

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