

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
Deer Lodge, MT	Deer Lodge-City-County		ORIG

TAKEOFF MINIMUMS:

RWY 13, STANDARD WITH MINIMUM CLIMB OF 275 FT PER NM TO 5700 OR 2300-3 FOR CLIMB IN VISUAL CONDITIONS.
RWY 31, STANDARD WITH MINIMUM CLIMB OF 370 FT PER NM TO 7000 OR 2300-3 FOR CLIMB IN VISUAL CONDITIONS.

TEXTUAL DEPARTURE PROCEDURES:

RWYS 13, 31, CLIMBING RIGHT TURN HEADING 218.00 TO 9700 TO INTERCEPT CPN VOR/DME R-339 TO CPN VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD (HOLD NORTH, LEFT TURN, 166.00 INBOUND) TO CROSS CPN VOR/DME AT OR ABOVE MEA OF INTENDED ROUTE BEFORE PROCEEDING ON COURSE, OR FOR CLIMB IN VISUAL CONDITIONS CROSS DEER LODGE-CITY-COUNTY AIRPORT AT OR ABOVE 6800 THEN PROCEED ON CPN R-339 TO CPN VOR/DME, CONTINUE CLIMB-IN-HOLD (HOLD NORTH, LEFT TURN, 166.00 INBOUND) TO CROSS CPN VOR/DME AT OR ABOVE MEA OF INTENDED ROUTE BEFORE PROCEEDING ON COURSE. WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 13, ROAD BEGINNING 3' FROM DER, 321' RIGHT OF CENTERLINE, 4658' MSL, LIGHT SUPPORT STRUCTURE 9' FROM DER, 28' LEFT OF CENTERLINE, 3' AGL/4630' MSL, TERRAIN BEGINNING 27' FROM DER, 160' RIGHT OF CENTERLINE, 4631' MSL, FENCE 128' FROM DER, 498' RIGHT OF CENTERLINE, 10' AGL, 4650' MSL.
NOTE: RWY 31, ROAD BEGINNING AT DER, 270' LEFT OF CENTERLINE, 4757' MSL, LIGHT SUPPORT STRUCTURE 10' FROM DER, 27' LEFT OF CENTERLINE, 3' AGL/4695' MSL, TERRAIN BEGINNING 155' FROM DER, 93' LEFT OF CENTERLINE, 4743' MSL, TERRAIN BEGINNING 536' FROM DER, 438' RIGHT OF CENTERLINE, 4715' MSL, TERRAIN BEGINNING 1832' FROM DER, 678' LEFT OF CENTERLINE, 4758' MSL, ROAD BEGINNING 1429' FROM DER, EXTENDING 869' LEFT OF CENTERLINE TO 278' RIGHT OF CENTERLINE, 4769' MSL, VERTICAL STRUCTURES 1577' FROM DER, 497' LEFT OF CENTERLINE, 5' AGL, 4754' MSL, TREE 2269' FROM DER, 412' LEFT OF CENTERLINE, 25' AGL/4785' MSL, POLES BEGINNING 4292' FROM DER, 1225' RIGHT OF CENTERLINE, 50' AGL/4891' MSL, ROAD BEGINNING 4577' FROM DER, 1627' LEFT OF CENTERLINE, 4898' MSL, TERRAIN BEGINNING 4824' FROM DER, 30' LEFT OF CENTERLINE, 4932' MSL, AGRICULTURE EQUIPMENT BEGINNING 5237' DER, EXTENDING 71' LEFT OF CENTERLINE TO 1202' RIGHT OF CENTERLINE, 15' AGL/4845' MSL.

CONTROLLING OBSTACLES:

RWY 13: 5399 FT MSL AAO 462002.90N-1124155.55W.
RWY 31: 5071 FT MSL POLE 462440.72N-1124726.63W, 6475 FT MSL AAO 462729.67N-1123643.58W.
VCOA: 6280 FT MSL AAO 462338.00N-1125238.00W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 13, 31, VCOA: 10368 FT MSL AAO 462059.70N-1125846.60W.

REMARKS:

CLIMB-TO-ALTITUDE 6800 FT AND 2300 FT CEILING CALCULATED TO ALLOW CLIMB TO 1000 FT ABOVE CPN VOR/DME ELEVATION OF 5780 FT MSL TO INTERCEPT CPN R-339.



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City, State	Airport	Effective Date	Amdt. No.
Deer Lodge, MT	Deer Lodge-City-County		ORIG

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

CONCURRENT

DEVELOPED BY:

ADOLFO URRUTIA (RALPH
DUMAR)

AJV-354

03/26/2012

07/26/2012

APPROVED BY:

DEZ SILAGYI

AJV-354

0726/2012

COORDINATED WITH:

ALPA, AOPA, NBAA, APT MGR, ZLC ARTCC

CHANGES:

1. Original procedure.

REASONS:

1. FPT requested.

EFFECTIVE CONCURRENT WITH AIRSPACE DOCKET 12-ANM-7



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		MRA	MAA
								NM	FEET		
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		TEMPLATES	
									MIN	MAX	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 PROCEDURES	KBTM	BUTTE	MT (US)
1	TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES	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 PROCEDURES		1	KBTM	BUTTE	MT (US)
EN ROUTE	V113					
EN ROUTE	V257		1			

QUALITY
&
(US) CHECKED
(US)

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: 07/26/2012

REASON FOR REVISION:

- ADDED HOLDING PAT 4, CORRESPONDING CONTROLLING OBSTACLE AND PRECIPITOUS TERRAIN, AND REASON FOR NON-STANDARD HOLDING.
- 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:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY
 &
 CHECKED



Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Dez Silagyi, Manager, Terminal Procedures & Charting Services, Western Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility' column will be revised effective concurrent with the publication of the procedure(s) listed below.

RNAV (GPS) RWY 30, ORIG
RNAV (GPS) A, ORIG
Textual Departure and VCOA, ORIG

Estimated Chart Date: 05/31/2012

Runway Numbers are affected with the airport rotation; 12/30 change to 13/31.

Please publish these changes in the National Flight Data Digest.

MONTANA

<u>Location</u>	<u>Name</u>	<u>Airport /Facility</u>	<u>Identifier</u>	<u>Assigned Magnetic Variation Value</u>	<u>Epoch Year</u>
DEER LODGE	DEER LODGE-CITY-COUNTY	Airport	K38S / 38S	Old 17 ° EAST	1985
				New 13 ° EAST	2015

If you have any questions please notify Dez Silagyi, dez.silagyi@faa.gov (405) 954-9977