

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.
GUNNISON, CO	GUNNISON-CRESTED BUTTE RGNL	11 FEB 2010	7

**TAKEOFF MINIMUMS:**

RWY 17, 35, NA - OBSTACLES  
RWY 06, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 9500, OR 2000 – 3 FOR CLIMB IN VISUAL CONDITIONS.  
RWY 24, STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 9300, OR 2000 – 3 FOR CLIMB IN VISUAL CONDITIONS.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 06 – CLIMB HEADING 076.55 TO 9500 THEN CLIMBING RIGHT TURN DIRECT HBU VOR/DME, THENCE....OR, FOR CLIMB IN VISUAL CONDITIONS, CROSS GUNNISON – CRESTED BUTTE RGNL AIRPORT AT OR ABOVE 9500, THEN ON HBU R-031 TO HBU VOR/DME, THENCE....  
RWY 24 – CLIMB HEADING 241.57 TO 9300 THEN CLIMBING LEFT TURN DIRECT HBU VOR/DME, THENCE....OR, FOR CLIMB IN VISUAL CONDITIONS, CROSS GUNNISON – CRESTED BUTTE RGNL AIRPORT AT OR ABOVE 9500, THEN ON HBU R-031 TO HBU VOR/DME, THENCE ....  
....CLIMB IN HBU VOR/DME HOLDING PATTERN (HOLD SW, LT, 031 INBOUND) TO DEPART HBU VOR/DME AT OR ABOVE MEA FOR ROUTE OF FLIGHT.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 06, TREES BEGINNING 669 FT FROM DER, 76 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/8179 FT MSL. BUSH 1.7 NM FROM DER, 2683 FT LEFT OF CENTERLINE, 9 FT AGL/8048 FT MSL. POLE 6093 FT FROM DER, 1950 FT LEFT OF CENTERLINE, 31 FT AGL/7850 FT MSL. RISING TERRAIN BEGINNING 1.5 NM FROM DER, 1787 FT LEFT OF CENTERLINE, UP TO 8009 FT MSL. TREE 669 FT FROM DER, ON CENTERLINE, 30 FT AGL/7707 FT MSL. TREES BEGINNING 240 FT FROM DER, 395 FT RIGHT OF CENTERLINE, UP TO 26 FT AGL/7705 FT MSL. POLE 1.6 NM FROM DER, 359 FT RIGHT OF CENTERLINE, 34 FT AGL/7933 FT MSL. BUSHES BEGINNING 73 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/7700 FT MSL. OBST LIGHT 509 FT FROM DER, 256 FT RIGHT OF CENTERLINE, 18 FT AGL/7697 FT MSL. VEHICLE 22 FT FROM DER, 426 FT RIGHT OF CENTERLINE 15 FT AGL/7702 FT MSL.  
NOTE: RWY 24, TREES BEGINNING 400 FT FROM DER, 321 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/7979 FT MSL. TREES BEGINNING 501 FT FROM DER, 458 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/7879 FT MSL. POLES BEGINNING 3069 FT FROM DER, 902 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/7800 FT MSL. RISING TERRAIN BEGINNING 2628 FT FROM DER, 1115 FT RIGHT OF CENTERLINE, UP TO 7792 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 06: 9039 FT MSL AAO, 383335.76N-1065029.00W  
RWY 24: 7879 FT MSL TREE 383158.37N-1065744.32W, 8939 FT MSL AAO 382750.32N-1070222.36W  
(VCOA) : 9242 FT MSL AAO 383443.30N-1065144.80W

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 06 - 13454 FT MSL AAO 384113.20N-1063711.60W, RWY 24 - 13235 FT MSL AAO 384304.20N-1071203.50W.



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GUNNISON, CO	GUNNISON-CRESTED BUTTE RGNL		7

**FLIGHT INSPECTED BY:**

Alan J. Kroeger

AVN

11/29/10

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

ADOLFO URRUTIA (DAVID JENNER)

AJV-354

07/09/2010

**APPROVED BY:**

DEZ SILAGYI

AJV-354

DEC 06 2010

**COORDINATED WITH:**

ALPA, AOPA, NBAA, ZDV, AMGR

**CHANGES:**

1. RWY 06 TAKEOFF MINIMUMS CHANGED FROM "1600-3 OR 600-2 WITH MINIMUM CLIMB OF 550'/NM TO 9500" TO "STANDARD WITH MINIMUM CLIMB OF 500' PER NM TO 9500, OR 2000 – 3 FOR CLIMB IN VISUAL CONDITIONS".
2. RWY 06 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "AT DEPARTURE END OF RUNWAY CLIMB HEADING 072 TO 9500 THEN CLIMBING RIGHT TURN DIRECT HBU VORTAC – AIRCRAFT UNABLE TO MAINTAIN 550'/NM MUST MANUEVER VISUALLY TO DEPART THE 11 DME FIX INBOUND TO THE HBU VORTAC ON THE HBU R-062 AT OR ABOVE 9200" TO "CLIMB HEADING 076.55 TO 9500 THEN CLIMBING RIGHT TURN DIRECT HBU VOR/DME, THENCE.... OR, FOR CLIMB IN VISUAL CONDITIONS, CROSS GUNNISON-CRESTED BUTTE RGNL AIRPORT AT OR ABOVE 9500, THEN ON HBU R-031 TO HBU VOR/DME, THENCE.....  
 ....CLIMB IN HBU VOR/DME HOLDING PATTERN (HOLD SW, LT, 031 INBOUND) TO DEPART HBU VOR/DME AT OR ABOVE MEA FOR ROUTE OF FLIGHT".
3. RWY 24 TAKEOFF MINIMUMS CHANGED FROM " 1200-3 OR 400-2 WITH MINIMUM CLIMB OF 350'/NM TO 9500" TO "STANDARD WITH MINIMUM CLIMB OF 420 FT PER NM TO 9300, OR 2000 – 3 FOR CLIMB IN VISUAL CONDITIONS".
4. RWY 24 TEXTUAL DEPARTURE PROCEDURE CHANGED FROM "CLIMB RWY HEADING TO 8400 THEN CLIMBING LEFT TURN DIRECT HBU VORTAC – AIRCRAFT UNABLE TO MAINTAIN 350'/NM MUST MANUEVER VISUALLY TO DEPART THE 4.0 DME FIX INBOUND TO THE HBU VORTAC ON THE HBU R-110 AT OR ABOVE 8800. ALL AIRCRAFT CONTINUE CLIMBING IN HBU VORTAC HOLDING PATTERN (HOLD SW, LT, 031 INBOUND) TO DEPART HBU VORTAC AT OR ABOVE R-261 CW R-280 108000, R-281 CW R-189 AND R-191 CW R-260 13000, R-190 12500" TO "CLIMB HEADING 241.57 TO 9300 THEN CLIMBING LEFT TURN DIRECT HBU VOR/DME, THENCE.... OR, FOR CLIMB IN VISUAL CONDITIONS, CROSS GUNNISON-CRESTED BUTTE RGNL AIRPORT AT OR ABOVE 9500, THEN ON HBU R-031 TO HBU VOR/DME, THENCE.....  
 ....CLIMB IN HBU VOR/DME HOLDING PATTERN (HOLD SW, LT, 031 INBOUND) TO DEPART HBU VOR/DME AT OR ABOVE MEA FOR ROUTE OF FLIGHT."

**REASONS:**

1. RWY 06 MINIMUMS CHANGED DUE TO NEW CONTROLLING OBSTACLE.
2. RWY 06, CHANGED DEPARTURE HEADING FROM A 10° TURN TO A 15° TURN PICKING UP A NEW CONTROLLING OBSTACLE WHICH CHANGED THE CLIMB GRADIENT AND CLIMB TO ALTITUDE. ADDED VCOA WITH ROUTE (R-031) TO KEEP CEILING AND VISIBILITY AS LOW AS POSSIBLE
3. RWY 24, NEW CONTROLLING OBSTACLE REQUIRING A HIGHER CLIMB GRADIENT/CTA..
4. RWY 24, ADDED VCOA WITH ROUTE (R-031) TO KEEP CEILING AND VISIBILITY AS LOW AS POSSIBLE AND TO DELETE THE "SECTORS" IN THE HOLDING PATTERN..

