

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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.

<u>CITY, STATE</u>	<u>AIRPORT</u>	<u>EFFECTIVE DATE</u>	<u>AMDT NO</u>
RAWLINS, WY	RAWLINS MUNI/HARVEY FIELD	15 AUGUST 2019	6

TAKEOFF MINIMUMS:

RWY 11, 29: NA - ENVIRONMENTAL

RWY 4: 500-3 OR STANDARD WITH A MINIMUM CLIMB OF 270 FT PER NM TO 7500.

RWY 22: 600-3 WITH MINIMUM CLIMB OF 255 FT PER NM TO 7900, OR STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 7500, OR 1500-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 4: CLIMBING RIGHT TURN TO 10000 ON HEADING 170.00 TO INTERCEPT CKW VOR/DME R-080 TO CKW VOR/DME, THEN PROCEED ON COURSE.

RWY 22: CLIMB TO 10000 ON HEADING 224.06 TO INTERCEPT CKW VOR/DME R-085 TO CKW VOR/DME, THEN PROCEED ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 22: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS RAWLINS MUNI/HARVEY FIELD AT OR ABOVE 8200 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4: TERRAIN, NAVAID BEGINNING 12 FT FROM DER, 123 FT LEFT OF CENTERLINE, 6826 FT MSL. TERRAIN 29 FT FROM DER, 360 FT LEFT OF CENTERLINE, 6835 FT MSL. TERRAIN, TREE BEGINNING 88 FT FROM DER, 149 FT RIGHT OF CENTERLINE, UP TO 6828 FT MSL. TERRAIN 170 FT FROM DER, 389 FT LEFT OF CENTERLINE, 6836 FT MSL. ROAD, TERRAIN BEGINNING 193 FT FROM DER, 419 FT RIGHT OF CENTERLINE, UP TO 6844 FT MSL. UTILITY, VERTICAL POINT BEGINNING 204 FT FROM DER, 426 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/6842 FT MSL. ROAD, TERRAIN BEGINNING 239 FT FROM DER, 362 FT RIGHT OF CENTERLINE, UP TO 6846 FT MSL. ROAD, TERRAIN BEGINNING 347 FT FROM DER, 478 FT LEFT OF CENTERLINE, UP TO 6859 FT MSL. ROAD 628 FT FROM DER, 580 FT LEFT OF CENTERLINE, 6868 FT MSL. ROAD 705 FT FROM DER, 581 FT RIGHT OF CENTERLINE, 6852 FT MSL. ROAD, FENCE, TERRAIN BEGINNING 814 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 6856 FT MSL. ROAD, TERRAIN, FENCE BEGINNING 873 FT FROM DER, 418 FT LEFT OF CENTERLINE, UP TO 6877 FT MSL. ROAD 1007 FT FROM DER, 581 FT LEFT OF CENTERLINE, 6881 FT MSL. ROAD, TERRAIN BEGINNING 1109 FT FROM DER, 559 FT LEFT OF CENTERLINE, UP TO 6884 FT MSL. ROAD, TERRAIN, FENCE BEGINNING 1217 FT FROM DER, 313 FT LEFT OF CENTERLINE, UP TO 6886 FT MSL. FENCE, TERRAIN BEGINNING 1941 FT FROM DER, 797 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/6890 FT MSL. TERRAIN BEGINNING 3568 FT FROM DER, 1223 FT LEFT OF CENTERLINE, UP TO 6911 FT MSL. ROADS BEGINNING 3761 FT FROM DER, 358 FT LEFT OF CENTERLINE, 6928 FT MSL. ROAD, TERRAIN, VEGETATION BEGINNING 3885 FT FROM DER, 789 FT LEFT OF CENTERLINE, UP TO 6931 FT MSL.

NOTE: RWY 22: ROAD AT DER, 184 FT LEFT OF CENTERLINE, 6758 FT MSL. ROADS BEGINNING 24 FT FROM DER, 4 FT RIGHT OF CENTERLINE, 6759 FT MSL. ROAD, BUILDING BEGINNING 39 FT FROM DER, 235 FT RIGHT OF CENTERLINE, UP TO 6760 FT MSL. POLE, BUILDING BEGINNING 206 FT FROM DER, 317 FT RIGHT OF CENTERLINE, UP TO 24 FT AGL/6769 FT MSL. TRANSMISSION LINE, POLE, TANK BEGINNING 340 FT FROM DER, 324 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/6774 FT MSL. ROAD, VEGETATION BEGINNING 1.8 NM FROM DER, 3474 FT LEFT OF CENTERLINE, 7060 FT MSL. VEGETATION, ROADS BEGINNING 1.9 NM FROM DER, 3380 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/7118 FT MSL. VEGETATION, TRANSMISSION LINE BEGINNING 2 NM FROM DER, 2979 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/7266 FT MSL. TOWER, VEGETATION, TRANSMISSION LINE, POLE, ANTENNA, ROAD BEGINNING 2.1 NM FROM DER, 2203 FT LEFT OF CENTERLINE, UP TO 110 FT AGL/7322 FT MSL.

CONTROLLING OBSTACLES:

RWY 4: 7280 VEGETATION 415029.00N/1070921.77W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE/CEILING), 7220 VEGETATION 415035.45N/1070923.60W (VISIBILITY).

RWY 22: (255 CLIMB GRADIENT) 7589 AAO 414450.32N/1071645.50W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE), 7322 TOWER (56-020739) 414611.30N/1071438.14W (CEILING), 7288 TOWER (56-020768) 414611.20N/1071445.40W (VISIBILITY)

(350 CLIMB GRADIENT) 7312 TOWER (56-020837) 414614.14N/1071427.29W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE).

VCOA: 7940 AAO 414907.76N/1071649.60W (CONTROLLING OBSTACLE).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 4: 8059 FT MSL AAO 415520.23N/1070736.72W. RWY 22: 7940 FT MSL AAO 414907.76N/1071649.60W.



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REMARKS:

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> DAVID TEFFETELLER Apr 22, 2019	OFFICE SYMBOL:	DATE:
JOEL F HAWKLEY		FICO	4/18/19
DEVELOPED BY:	<i>Digitally signed by</i> DAVID TEFFETELLER Mar 13, 2019	OFFICE SYMBOL:	DATE:
SCOTT BAGENSIE		AJV-A433	02/06/2019
APPROVED BY:	<i>Digitally signed by</i> DAVID TEFFETELLER Apr 22, 2019	OFFICE SYMBOL:	DATE:
LONNIE EVERHART		AJV-A43	

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER:
ZDV, ZLC, AMGR

CHANGES - REASONS:

1. CHANGED RWY 10/28 TO 11/29 - RESULT OF UPDATED AIRPORT SURVEY.
2. UPDATED TAKEOFF OBSTACLES - RESULT OF UPDATED AIRPORT SURVEY/CLEARs AIRPORT NOTAM 7/006.
3. ADDED "600-3 WITH MINIMUM CLIMB OF 255 FT PER NM TO 7900" TO RWY 22 TAKEOFF MINIMUMS - ENHANCED TAKEOFF MINIMUMS TO PROVIDE A LOWER CLIMB GRADIENT TO GENERAL AVIATION AIRCRAFT.
4. CHANGED RWY 22 PRIMARY CLIMB GRADIENT FROM "335 FT PER NM TO 7600" TO "350 FT PER NM TO 7500" - RESULT OF MAP STUDY FOR AAO OBSTACLES.
5. CHANGED RWY 22 VCOA CEILING FROM 1400 TO 1500 - NEW CONTROLLING OBSTACLE.
6. CHANGED RWY 4 TAKEOFF MINIMUMS FROM "500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 250 PER NM TO 7400" TO "500-3 OR STANDARD WITH MINIMUM CLIMB OF 270 FT PER NM TO 7500" - NEW CONTROLLING OBSTACLE.
7. CHANGED RWY 22 VCOA ON COURSE ALTITUDE FROM 8100 TO 8200 - NEW CONTROLLING OBSTACLE.
8. UPDATED RWY 4 CONTROLLING OBSTACLE FROM "7236 FT MSL GROUND 415023.55N" TO "7280 VEGETATION 415029.00N/1070921.77W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE/CEILING), 7220 VEGETATION 415035.45N/1070923.60W (VISIBILITY)" - UPDATED MAP STUDY.
9. UPDATED RWY 22 CONTROLLING OBSTACLE FROM "7322 FT MSL TOWER 414611.31N/1071438.14W" TO "(255 CLIMB GRADIENT) 7589 AAO 414450.32N/1071645.50W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE), 7312 TOWER (56-020739) 414611.30N/1071438.14W (CEILING), 7288 TOWER (56-020768) 414611.20N/1071445.40W (VISIBILITY) AND (350 CLIMB GRADIENT) 7312 TOWER (56-020837) 414614.14N/1071427.29W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE)" - NEW CONTROLLING OBSTACLES.
10. UPDATED VCOA CONTROLLING OBSTACLE FROM "7914 FT MSL TOWER 414845.60N/1071905.50W" TO "7940 AAO 414907.76N/1071649.60W (CONTROLLING OBSTACLE) - UPDATED AIRPORT SURVEY.
11. UPDATED OBSTACLE MANDATING ODP ROUTE DEVELOPMENT FOR RWY 22 FROM "7826 FT MSL VEGETATION 414816.29N/1071605.80W" TO "7940 FT MSL AAO 414907.76N/1071649.60W" - UPDATED AIRPORT SURVEY.

