

**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>
PULLMAN/MOSCOW, WA	PULLMAN/MOSCOW RGNL	1 FEBRUARY 2018	4A

**TAKEOFF MINIMUMS:**

RWY 6: 300-1 1/4 WITH MINIMUM CLIMB OF 295 FT PER NM TO 4500 OR STANDARD WITH MINIMUM CLIMB OF 547 FT PER NM TO 3100 OR 4600-3 FOR CLIMB IN VISUAL CONDITIONS.

RWY 24: 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 2900.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 6: CLIMB HEADING 055.11 TO 3100 THEN CLIMBING LEFT TURN DIRECT PUW VOR/DME, CONTINUE CLIMB IN PUW VOR/DME HOLDING PATTERN (SW, LEFT TURNS, 031.94 INBOUND) TO CROSS PUW VOR/DME AT OR ABOVE MEA FOR DIRECTION OF FLIGHT.

RWY 24: CLIMBING LEFT TURN TO INTERCEPT PUW VOR/DME R-021 TO PUW VOR/DME, CONTINUE CLIMB IN PUW VOR/DME HOLDING PATTERN (SW, LEFT TURNS, 031.94 INBOUND) TO CROSS PUW VOR/DME AT OR ABOVE MEA FOR DIRECTION OF FLIGHT.

**VISUAL CLIMB OVER AIRPORT:**

RWY 6: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS PULLMAN/MOSCOW RGNL AIRPORT AT OR ABOVE 4500 BEFORE PROCEEDING ON COURSE.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 6, TERRAIN 37 FT FROM DER, 326 FT RIGHT OF CENTERLINE, 2570 FT MSL.

TERRAIN 40 FT FROM DER, 450 FT RIGHT OF CENTERLINE, 2576 FT MSL.

BUILDING, TRAILER BEGINNING 91 FT FROM DER, 413 FT LEFT OF CENTERLINE, UP TO 23 FT AGL/2579 FT MSL.

TERRAIN BEGINNING 191 FT FROM DER, 347 FT RIGHT OF CENTERLINE, UP TO 2594 FT MSL.

TERRAIN BEGINNING 358 FT FROM DER, 342 FT RIGHT OF CENTERLINE, UP TO 2607 FT MSL.

TERRAIN, ELECTRICAL SYSTEM BEGINNING 531 FT FROM DER, 122 FT RIGHT OF CENTERLINE, UP TO 2625 FT MSL.

TERRAIN 719 FT FROM DER, 511 FT RIGHT OF CENTERLINE, 2634 FT MSL.

TERRAIN, ELECTRICAL SYSTEM BEGINNING 771 FT FROM DER, 6 FT RIGHT OF CENTERLINE, UP TO 2635 FT MSL.

TERRAIN BEGINNING 1000 FT FROM DER, 114 FT LEFT OF CENTERLINE, UP TO 2591 FT MSL.

TERRAIN BEGINNING 1203 FT FROM DER, 131 FT LEFT OF CENTERLINE, UP TO 2613 FT MSL.

TERRAIN 1405 FT FROM DER, 128 FT LEFT OF CENTERLINE, 2624 FT MSL.

TERRAIN BEGINNING 1531 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 2628 FT MSL.

TERRAIN BEGINNING 1589 FT FROM DER, 26 FT RIGHT OF CENTERLINE, UP TO 2641 FT MSL.

TERRAIN BEGINNING 1772 FT FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 2658 FT MSL.

TERRAIN BEGINNING 1949 FT FROM DER, 187 FT RIGHT OF CENTERLINE, UP TO 2673 FT MSL.

TERRAIN BEGINNING 2002 FT FROM DER, 108 FT LEFT OF CENTERLINE, UP TO 2637 FT MSL.

TERRAIN BEGINNING 2126 FT FROM DER, 53 FT RIGHT OF CENTERLINE, UP TO 2690 FT MSL.

TERRAIN 2183 FT FROM DER, 178 FT LEFT OF CENTERLINE, 2650 FT MSL.

TERRAIN BEGINNING 2231 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 2652 FT MSL.

TERRAIN BEGINNING 2293 FT FROM DER, 47 FT RIGHT OF CENTERLINE, UP TO 2700 FT MSL.

POLE, TERRAIN, ELECTRICAL SYSTEM, TREE BEGINNING 2472 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 8 FT AGL/2719 FT MSL.

TERRAIN, FENCE, TREE, BUILDING BEGINNING 2584 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 2663 FT MSL.

TREE, TERRAIN BEGINNING 3832 FT FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 2685 FT MSL.

TERRAIN BEGINNING 4234 FT FROM DER, 15 FT LEFT OF CENTERLINE, UP TO 2691 FT MSL.

TERRAIN BEGINNING 4608 FT FROM DER, 227 FT RIGHT OF CENTERLINE, UP TO 2720 FT MSL.

TERRAIN BEGINNING 4827 FT FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 2724 FT MSL.

TERRAIN BEGINNING 5043 FT FROM DER, 38 FT RIGHT OF CENTERLINE, UP TO 2727 FT MSL.

TERRAIN BEGINNING 5175 FT FROM DER, 6 FT LEFT OF CENTERLINE, UP TO 2711 FT MSL.

TERRAIN BEGINNING 5247 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 2729 FT MSL.

TERRAIN 5306 FT FROM DER, 1633 FT RIGHT OF CENTERLINE, 2730 FT MSL.

TERRAIN BEGINNING 5363 FT FROM DER, 90 FT RIGHT OF CENTERLINE, UP TO 2732 FT MSL.

TERRAIN BEGINNING 5423 FT FROM DER, 886 FT RIGHT OF CENTERLINE, UP TO 2733 FT MSL.

TERRAIN BEGINNING 5591 FT FROM DER, 258 FT LEFT OF CENTERLINE, UP TO 2714 FT MSL.

TERRAIN BEGINNING 5969 FT FROM DER, 358 FT LEFT OF CENTERLINE, UP TO 2716 FT MSL.

FENCE, TERRAIN BEGINNING 6031 FT FROM DER, 324 FT LEFT OF CENTERLINE, UP TO 13 FT AGL/2717 FT MSL.

TERRAIN 1 NM FROM DER, 498 FT LEFT OF CENTERLINE, 2718 FT MSL.



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NOTE: RWY 24, SIGN 22 FT FROM DER, 148 FT RIGHT OF CENTERLINE, 3 FT AGL/2543 FT MSL.  
TRAVERSE WAY 130 FT FROM DER, 492 FT RIGHT OF CENTERLINE, 2563 FT MSL.  
TRANSMISSION LINE 185 FT FROM DER, 444 FT LEFT OF CENTERLINE, 40 FT AGL/2552 FT MSL.  
TERRAIN BEGINNING 445 FT FROM DER, 480 FT RIGHT OF CENTERLINE, UP TO 2571 FT MSL.  
TERRAIN, TREE BEGINNING 614 FT FROM DER, 112 FT RIGHT OF CENTERLINE, UP TO 2602 FT MSL.  
FENCE 2580 FT FROM DER, 498 FT RIGHT OF CENTERLINE, 8 FT AGL/2611 FT MSL.  
TERRAIN 2793 FT FROM DER, 727 FT RIGHT OF CENTERLINE, 2629 FT MSL.  
TERRAIN 3024 FT FROM DER, 787 FT RIGHT OF CENTERLINE, 2631 FT MSL.  
TERRAIN BEGINNING 3190 FT FROM DER, 654 FT RIGHT OF CENTERLINE, UP TO 2641 FT MSL.  
TERRAIN 3447 FT FROM DER, 1186 FT RIGHT OF CENTERLINE, 2642 FT MSL.  
TERRAIN BEGINNING 3568 FT FROM DER, 1123 FT RIGHT OF CENTERLINE, UP TO 2655 FT MSL.  
TERRAIN 3909 FT FROM DER, 1531 FT RIGHT OF CENTERLINE, 2661 FT MSL.  
TREE, TERRAIN, BUILDING, TANK BEGINNING 4693 FT FROM DER, 173 FT RIGHT OF CENTERLINE, UP TO 2774 FT MSL.  
WATER TOWER 5821 FT FROM DER, 1924 FT RIGHT OF CENTERLINE, 37 FT AGL/2717 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 6: 2718 FT MSL TERRAIN 463759.81N/1165635.59W (VISIBILITY), 2733 FT MSL TERRAIN 464016.18N/1170514.59W (CEILING), 2719 FT MSL POLE 464452.24N/1170512.94W (547 CLIMB GRADIENT), 3999 FT MSL AAO 464924.74N/1165904.50W (295 CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE), 3479 FT MSL AAO 464820.45N/1170119.48W (547 CLIMB GRADIENT TERMINATION ALTITUDE).

RWY 24: 2774 FT MSL TREE 464842.38N/1164039.66W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE/CEILING), 2717 FT MSL WATER TOWER 465346.60N/1165321.95W (VISIBILITY).

RWY 6 (VCOA): 3139 FT MSL AAO 464729.68N/1170250.13W (VISUAL CLIMB AREA), 5183 FT MSL AAO 464812.40N/1165207.39W (CLIMB-TO ALTITUDE).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 6/24: 5183 FT MSL AAO 464812.40N/1165207.39W.

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**REMARKS:**

30 FT VEGETATION APPLIED PER WFPT.

<b>FLIGHT INSPECTED BY:</b>	<i>Digitally signed by</i> <b>ROBERT G HAMILTON</b> Dec 22, 2017	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
TONY BAMSEY		FICO	12/12/17
<b>DEVELOPED BY:</b>	<i>Digitally signed by</i> <b>JOHN R THORNTON</b> Sep 20, 2017	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
JOHN THORNTON		AJV-5422	08/09/2017
<b>APPROVED BY:</b>	<i>Digitally signed by</i> <b>ROBERT G HAMILTON</b> Dec 22, 2017	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
JULIE MORGAN		AJV-5420	

**REQUIRED EFFECTIVE DATE:**

**COORDINATED WITH:**

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

**OTHER:**

ZSE, STATE AVIATION DIR, ARPT MGR

**CHANGES - REASONS:**

1. UPDATED CITY/STATE - CHANGED FROM "PULLMAN/MOSCOW, ID, WA" TO "PULLMAN/MOSCOW, WA".
2. RWY 6 TAKEOFF MINIMUMS: DELETED "WHEN EXECUTING VCOA, NOTIFY ATC PRIOR TO DEPARTURE" - VCOA DOCUMENTED SEPARATELY FROM DEPARTURE PROCEDURES IAW CURRENT CRITERIA.
3. CHANGED RWY 24 TAKEOFF MINIMUMS FROM "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 377 FT PER NM TO 2900" TO "300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 400 FT PER NM TO 2900" - NEW CONTROLLING OBSTACLE REQUIRES 397 FT PER NM CLIMB GRADIENT (ROUNDED TO 400 FT PER NM).
4. DELETED "OR FOR CLIMB IN VISUAL CONDITIONS, CROSS PULLMAN/MOSCOW REGIONAL AT OR ABOVE 4500" FROM RWY 6 TEXTUAL DEPARTURE PROCEDURES - VCOA DOCUMENTED SEPARATELY FROM DEPARTURE PROCEDURES IAW CURRENT CRITERIA.
5. ADDED VISUAL CLIMB OVER AIRPORT "RWY 6: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS PULLMAN/MOSCOW RGNL AIRPORT AT OR ABOVE 4500 BEFORE PROCEEDING ON COURSE" - VCOA DOCUMENTED SEPARATELY FROM DEPARTURE PROCEDURES IAW CURRENT CRITERIA.
6. UPDATED TAKEOFF OBSTACLE NOTES - NEW SURVEY DATA/ROOF CORNER HEIGHTS OF TRAILER PROVIDED BY WFPT (2557.45 FT MSL/14 FT AGL 464454.66N/1170543.71W - SW CORNER, 2558.05 FT MSL/14 FT AGL 464454.87N/1170543.71W - SE CORNER, 2558.02 FT MSL/14 FT AGL 464455.00N/1170543.78W - NE CORNER, 2557.47 FT MSL/14 FT AGL 464454.79N/1170544.59W - NW CORNER).
7. UPDATED CONTROLLING OBSTACLES - CEILING, VISIBILITY, CLIMB GRADIENT, AND CLIMB-TO ALTITUDE OBSTACLES IDENTIFIED/NEW RWY 24 CONTROLLING OBSTACLE REQUIRES A HIGHER CLIMB GRADIENT.
8. ADDED REMARK - "30 FT VEGETATION APPLIED PER WFPT".