

**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>
TANANA, AK	RALPH M CALHOUN MEMORIAL	8 NOVEMBER 2018	1A

TAKEOFF MINIMUMS:

RWY 7, STANDARD WITH A MINIMUM CLIMB OF 405 FT PER NM TO 1300, OR 1200-3 FOR VCOA.
RWY 25, 300-1 5/8 OR STANDARD WITH A MINIMUM CLIMB OF 256 FT PER NM TO 600.

TEXTUAL DEPARTURE PROCEDURES:

RWY 7- CLIMBING RIGHT TURN ON HEADING 102 AND TAL VOR/DME R-081 TO SATUE/TAL 12.00 DME.
RWY 25- CLIMBING LEFT TURN ON HEADING 078 AND TAL VOR/DME R-081 TO SATUE.

ALL AIRCRAFT CONTINUE CLIMB IN SATUE/12.00 DME HOLDING PATTERN (HOLD E, LT, 261.18 INBOUND) TO CROSS SATUE AT OR ABOVE 4000 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 7: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS RALPH M. CALHOUN MEMORIAL AIRPORT AT OR ABOVE 1300 THEN CLIMB ON TAL VOR/DME R-081 TO SATUE, CONTINUE CLIMB IN SATUE HOLDING PATTERN (HOLD E, LT, 261.18 INBOUND) TO CROSS SATUE AT OR ABOVE 4000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 07: NAVAID 10 FT FROM DER, 60 FT LEFT OF CENTERLINE, 2 FT AGL/243 FT MSL.
VEGETATION 21 FT FROM DER, 194 FT LEFT OF CENTERLINE, 9 FT AGL/244 FT MSL.
TREE 25 FT FROM DER, 422 FT RIGHT OF CENTERLINE, 47 FT AGL/276 FT MSL.
TREES, VEGETATION BEGINNING 83 FT FROM DER, 249 FT LEFT OF CENTERLINE, UP TO 26 FT AGL/260 FT MSL.
TREES BEGINNING 117 FT FROM DER, 360 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/280 FT MSL.
TREE 193 FT FROM DER, 513 FT LEFT OF CENTERLINE, 30 FT AGL/266 FT MSL.
TREE 373 FT FROM DER, 520 FT LEFT OF CENTERLINE, 32 FT AGL/267 FT MSL.
TREES BEGINNING 460 FT FROM DER, 511 FT LEFT OF CENTERLINE, UP TO 32 FT AGL/268 FT MSL.
TREES BEGINNING 1.4 NM FROM DER, 2394 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/481 FT MSL.
TREES BEGINNING 1.6 NM FROM DER, 2194 FT LEFT OF CENTERLINE, UP TO 89 FT AGL/587 FT MSL.
TREES BEGINNING 1.6 NM FROM DER, 2360 FT LEFT OF CENTERLINE, UP TO 89 FT AGL/620 FT MSL.
TREES BEGINNING 1.7 NM FROM DER, 1974 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/658 FT MSL.
TREES BEGINNING 1.8 NM FROM DER, 1989 FT LEFT OF CENTERLINE, UP TO 99 FT AGL/722 FT MSL.
TREES BEGINNING 2 NM FROM DER, 1467 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/806 FT MSL.
TREES BEGINNING 2.1 NM FROM DER, 1470 FT LEFT OF CENTERLINE, UP TO 77 FT AGL/772 FT MSL.
TREES BEGINNING 2.3 NM FROM DER, 1489 FT LEFT OF CENTERLINE, UP TO 93 FT AGL/856 FT MSL.
TREE, VEHICLES ON ROAD BEGINNING 2.3 NM FROM DER, 1930 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/868 FT MSL.
TREE, VEHICLES ON ROAD BEGINNING 2.4 NM FROM DER, 1491 FT LEFT OF CENTERLINE, UP TO 61 FT AGL/853 FT MSL.
TREE, VEHICLES ON ROAD, VERTICAL STRUCTURE BEGINNING 2.4 NM FROM DER, 1494 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/869 FT MSL.
NOTE: RWY 25: BUILDING 5 FT FROM DER, 371 FT LEFT OF CENTERLINE, 10 FT AGL/232 FT MSL.
TREE 8 FT FROM DER, 343 FT LEFT OF CENTERLINE, 10 FT AGL/233 FT MSL.
TREES, NAVAID BEGINNING 8 FT FROM DER, 59 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/234 FT MSL.
NAVAID 9 FT FROM DER, 60 FT RIGHT OF CENTERLINE, 2 FT AGL/231 FT MSL.
TREES BEGINNING 224 FT FROM DER, 493 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/273 FT MSL.
TREES, VEHICLES ON ROAD BEGINNING 908 FT FROM DER, 573 FT RIGHT OF CENTERLINE, UP TO 44 FT AGL/281 FT MSL.
TREES BEGINNING 1911 FT FROM DER, 421 FT RIGHT OF CENTERLINE, UP TO 39 FT AGL/282 FT MSL.
TREES BEGINNING 2341 FT FROM DER, 559 FT RIGHT OF CENTERLINE, UP TO 46 FT AGL/295 FT MSL.
TREES BEGINNING 2934 FT FROM DER, 821 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/324 FT MSL.
TREES BEGINNING 3334 FT FROM DER, 922 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/335 FT MSL.
TREES BEGINNING 3621 FT FROM DER, 1057 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/365 FT MSL.
TREES BEGINNING 4086 FT FROM DER, 1156 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/368 FT MSL.
TREES, CATENARY BEGINNING 5357 FT FROM DER, 1369 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/373 FT MSL.
TREES BEGINNING 5763 FT FROM DER, 1764 FT RIGHT OF CENTERLINE, UP TO 58 FT AGL/410 FT MSL.
TREES, CATENARY, POLE BEGINNING 5888 FT FROM DER, 1389 FT RIGHT OF CENTERLINE, UP TO 65 FT AGL/418 FT MSL.
TREE, CATENARY, POLE BEGINNING 1 NM FROM DER, 1381 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/427 FT MSL.
TREES BEGINNING 1 NM FROM DER, 1301 FT RIGHT OF CENTERLINE, UP TO 53 FT AGL/436 FT MSL.
TREES BEGINNING 1.1 NM FROM DER, 1136 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/425 FT MSL.

CONTROLLING OBSTACLES:

RWY 7: 859 FT MSL TREE 651051.14N/1520051.37W (CLIMB GRADIENT)(CLIMB TO ALTITUDE) 876 FT MSL TREE 651048.33N/1515935.85W (CEILING)
830 FT MSL TREE 651050.34N/1515930.96W (VISIBILITY)
RWY 7 (VCOA): 959 FT MSL TREE 651048.25N/1515906.45W. (VCA)
RWY 25: 418 FT MSL TREE 651046.63N/1520939.14W (CLIMB GRADIENT) 440 FT MSL TREE 651047.36N/1520955.38W (CLIMB TO ALTITUDE)
445 FT MSL TREE 651040.21N/1521023.59W (CEILING) 444 FT MSL TREE 541039.98N/1521024.80W (VISIBILITY)
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 7, 25: 3684 FT MSL AAO 652105.90N/1514238.00W



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TANANA, AK	RALPH M CALHOUN MEMORIAL	8 NOVEMBER 2018	1A

REMARKS:

FLIGHT INSPECTED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
DANIEL STRICKER	ALLAN WILL	FIOG	07/31/2018
	Sep 05, 2018		

DEVELOPED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
GEORGE H. TRAMMELL	GEORGE H TRAMMELL	AJV-5412	05/30/2018
	Jun 14, 2018		

APPROVED BY:	<i>Digitally signed by</i>	OFFICE SYMBOL:	DATE:
GEORGE E. DAVIS	ALLAN WILL	AJV-5410	
	Sep 05, 2018		

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

<u>A4A</u>	<u>ALPA</u>	<u>AOPA</u>	<u>APA</u>	<u>HAI</u>	<u>NBAA</u>
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OTHER:
ZAN, AK DOTPT/N. RGN

CHANGES - REASONS:

1. TAKEOFF MINIMUMS: RWY 7, CHANGED 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO 1200-3 FOR VCOA DUE TO CURRENT CRITERIA AND 8260.46F DOCUMENTATION REQUIREMENTS.
2. TAKEOFF MINIMUMS: RWY 25, CHANGED STANDARD WITH A MINIMUM CLIMB OF 230 FEET PER NM TO 600 OR 1200-2 1/2 FOR CLIMB IN VISUAL CONDITIONS TO 300-1 5/8 OR STANDARD WITH A MINIMUM CLIMB OF 256 FT PER NM TO 600 DUE IAW 8260.46F TO OFFER CEILING AND VISIBILITY TO MITIGATE NEED FOR CLIMB GRADIENT, NEW CLIMB GRADIENT DUE TO NEW CONTROLLING OBSTACLE AND DELETED VCOA AS NOT NECESSARY FOR RWY 25.
3. TEXTUAL DEPARTURE PROCEDURES: RWY 7, CHANGED CLIMB VIA TO CLIMB ON TAL VOR/DME R-081 TO SATUE/TAL 12.00 DME DUE TO NEW CRITERIA.
4. TEXTUAL DEPARTURE PROCEDURES: RWY 25, CHANGED CLIMB VIA TO CLIMB ON AND DELETED REFERENCES TO VCOA DUE TO NEW CRITERIA AND VCOA NOT REQUIRED FOR RWY 25.
5. VISUAL CLIMB OVER AIRPORT: ADDED OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS RALPH M. CALHOUN MEMORIAL AIRPORT AT OR ABOVE 1300 THEN CLIMB ON TAL VOR/DME R-081 TO SATUE, CONTINUE CLIMB IN SATUE HOLDING PATTERN (HOLD E, LT, 261.18 INBOUND) TO CROSS SATUE AT OR ABOVE 4000 BEFORE PROCEEDING ON COURSE IAW 8260.46F DOCUMENTATION REQUIREMENTS.
6. ADDED NEW TAKEOFF OBSTACLE NOTES IAW NEW TARGETS BUILD AND GROUPER.
7. CONTROLLING OBSTACLES: RWY 7: 859 FT MSL TREE 651051.14N/1520051.37W AS (CLIMB GRADIENT) AND (CLIMB GRADIENT CLIMB TO ALTITUDE) CONTROLLER, 876 FT MSL TREE 651048.33N/1515935.85W (CEILING) AND 830 FT MSL TREE 651050.34N/1515930.96 (VISIBILITY) DUE TO NEW TARGETS BUILD.
8. CONTROLLING OBSTACLES: RWY 25: 418 FT MSL TREE 651046.63N/1520939.14W (CLIMB GRADIENT) AND 440 FT MSL TREE 651047.36N/1520955.38W (CLIMB TO ALTITUDE), 445 FT MSL TREE 651040.21N/1521023.59W (CEILING) AND 444 FT MSL TREE 541039.98N/1521024.80W (VISIBILITY) DUE TO NEW TARGETS BUILD.
9. OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 7, 25: 3684 FT MSL AAO 652105.90N/1514238.00W IAW 8260.46F DOCUMENTATION REQUIREMENTS.

09/04/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/07/18.

1. CHANGED AIRPORT NAME FROM RALPH M. CALHOUN MEMORIAL AIRPORT TO RALPH M. CALHOUN MEMORIAL. PER AIRNAV.

