

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

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
DANIELSON, CT	DANIELSON	19 JULY 2018	4

**TAKEOFF MINIMUMS:**

**RWY 13:** STANDARD WITH MINIMUM CLIMB OF 340 FT PER NM TO 900 OR 1100-3 FOR VCOA

**RWY 31:** 400-3 WITH MINIMUM CLIMB OF 270 FT PER NM TO 800 OR STANDARD WITH MINIMUM CLIMB OF 470 TO 500 OR 1100-3 FOR VCOA

**TEXTUAL DEPARTURE PROCEDURES:**

**VISUAL CLIMB OVER AIRPORT:**

RWY 13, 31: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS DANIELSON AIRPORT AT OR ABOVE 1200 BEFORE PROCEEDING ON COURSE

**TAKEOFF OBSTACLE NOTES:**

**NOTE: RWY 13:** TERRAIN 14 FT FROM DER, 315 FT LEFT OF CENTERLINE, 234 FT MSL. NAVAID 25 FT FROM DER, 78 FT LEFT OF CENTERLINE, 4 FT AGL/235 FT MSL. TREES, POLES, FENCES, BUILDINGS, TRAVERSE WAYS BEGINNING 40 FT FROM DER, 180 FT LEFT OF CENTERLINE, UP TO 304 FT MSL. TREE 87 FT FROM DER, 176 FT RIGHT OF CENTERLINE, 284 FT MSL. TREES BEGINNING 157 FT FROM DER, 209 FT RIGHT OF CENTERLINE, UP TO 338 FT MSL. TREE 333 FT FROM DER, 410 FT RIGHT OF CENTERLINE, 342 FT MSL. TREES, TRAVERSE WAYS, FENCES, POLES, BUILDINGS BEGINNING 342 FT FROM DER, 3 FT RIGHT OF CENTERLINE, UP TO 346 FT MSL. TREES, POLES BEGINNING 1040 FT FROM DER, 235 FT LEFT OF CENTERLINE, UP TO 343 FT MSL. TREES, POLES BEGINNING 1285 FT FROM DER, 16 FT LEFT OF CENTERLINE, UP TO 347 FT MSL. TREES BEGINNING 5565 FT FROM DER, 1611 FT LEFT OF CENTERLINE, UP TO 403 FT MSL. SPIRE 5604 FT FROM DER, 1482 FT RIGHT OF CENTERLINE, 161 FT AGL/397 FT MSL. TREE 5730 FT FROM DER, 1713 FT LEFT OF CENTERLINE, 407 FT MSL. TREES BEGINNING 5794 FT FROM DER, 1091 FT LEFT OF CENTERLINE, UP TO 413 FT MSL. TREES BEGINNING 6023 FT FROM DER, 1156 FT LEFT OF CENTERLINE, UP TO 420 FT MSL. TREE 1 NM FROM DER, 1808 FT LEFT OF CENTERLINE, 423 FT MSL. TREES BEGINNING 1 NM FROM DER, 1204 FT LEFT OF CENTERLINE, UP TO 425 FT MSL. TREES BEGINNING 1 NM FROM DER, 799 FT LEFT OF CENTERLINE, UP TO 433 FT MSL. TOWER, TREE BEGINNING 1 NM FROM DER, 191 FT RIGHT OF CENTERLINE, UP TO 160 FT AGL/436 FT MSL. TREES BEGINNING 1 NM FROM DER, 691 FT LEFT OF CENTERLINE, UP TO 448 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 1360 FT LEFT OF CENTERLINE, UP TO 453 FT MSL. TREE 1.1 NM FROM DER, 2180 FT LEFT OF CENTERLINE, 456 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 944 FT LEFT OF CENTERLINE, UP TO 457 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 972 FT LEFT OF CENTERLINE, UP TO 466 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 777 FT LEFT OF CENTERLINE, UP TO 469 FT MSL. TREE 1.1 NM FROM DER, 2073 FT LEFT OF CENTERLINE, 473 FT MSL. TREES BEGINNING 1.1 NM FROM DER, 1340 FT LEFT OF CENTERLINE, UP TO 484 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 1031 FT LEFT OF CENTERLINE, UP TO 486 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 1339 FT LEFT OF CENTERLINE, UP TO 490 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 275 FT LEFT OF CENTERLINE, UP TO 491 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 38 FT RIGHT OF CENTERLINE, UP TO 440 FT MSL. TREES BEGINNING 1.2 NM FROM DER, 165 FT LEFT OF CENTERLINE, UP TO 506 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 508 FT MSL. TREES, BUILDING BEGINNING 1.3 NM FROM DER, 242 FT LEFT OF CENTERLINE, UP TO 521 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 368 FT RIGHT OF CENTERLINE, UP TO 461 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 85 FT RIGHT OF CENTERLINE, UP TO 513 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 808 FT LEFT OF CENTERLINE, UP TO 524 FT MSL. TREE 1.3 NM FROM DER, 272 FT LEFT OF CENTERLINE, 525 FT MSL. TREES BEGINNING 1.3 NM FROM DER, ON CENTERLINE, UP TO 534 FT MSL. TREE, BUILDING BEGINNING 1.3 NM FROM DER, 267 FT LEFT OF CENTERLINE, UP TO 539 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 189 FT RIGHT OF CENTERLINE, UP TO 533 FT MSL. TREES BEGINNING 1.3 NM FROM DER, 58 FT RIGHT OF CENTERLINE, UP TO 550 FT MSL. TREE 1.4 NM FROM DER, 182 FT RIGHT OF CENTERLINE, 557 FT MSL. TREES, BUILDING BEGINNING 1.4 NM FROM DER, 105 FT LEFT OF CENTERLINE, UP TO 556 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 337 FT RIGHT OF CENTERLINE, UP TO 561 FT MSL. TREE 1.4 NM FROM DER, 581 FT RIGHT OF CENTERLINE, 573 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 57 FT RIGHT OF CENTERLINE, UP TO 579 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 358 FT LEFT OF CENTERLINE, UP TO 558 FT MSL. TREES, BUILDING BEGINNING 1.4 NM FROM DER, 282 FT RIGHT OF CENTERLINE, UP TO 587 FT MSL. TREES, BUILDING BEGINNING 1.4 NM FROM DER, 148 FT LEFT OF CENTERLINE, UP TO 567 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 260 FT RIGHT OF CENTERLINE, UP TO 593 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 69 FT RIGHT OF CENTERLINE, UP TO 600 FT MSL. TREES, BUILDING BEGINNING 1.4 NM FROM DER, 603 FT RIGHT OF CENTERLINE, UP TO 608 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 20 FT LEFT OF CENTERLINE, UP TO 580 FT MSL. TREES, TERRAIN BEGINNING 1.5 NM FROM DER, 172 FT RIGHT OF CENTERLINE, UP TO 609 FT MSL. TREES, BUILDING BEGINNING 1.5 NM FROM DER, 79 FT RIGHT OF CENTERLINE, UP TO 614 FT MSL. TREES, BUILDING BEGINNING 1.5 NM FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 589 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 121 FT LEFT OF CENTERLINE, UP TO 590 FT MSL. TREES, TERRAIN BEGINNING 1.5 NM FROM DER, 471 FT RIGHT OF CENTERLINE, UP TO 617 FT MSL. TREE 1.5 NM FROM DER, 719 FT RIGHT OF CENTERLINE, 620 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 282 FT RIGHT OF CENTERLINE, UP TO 625 FT MSL. TREES, BUILDING BEGINNING 1.5 NM FROM DER, 22 FT LEFT OF CENTERLINE, UP TO 604 FT MSL. TREE 1.5 NM FROM DER, 452 FT RIGHT OF CENTERLINE, 629 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 124 FT RIGHT OF CENTERLINE, UP TO 630 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 17 FT RIGHT OF CENTERLINE, UP TO 633 FT MSL. TREES, POLE BEGINNING 1.6 NM FROM DER, 444 FT RIGHT OF CENTERLINE, UP TO 635 FT MSL. TREES, BUILDING, TERRAIN BEGINNING 1.6 NM FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 638 FT MSL. TREES, TERRAIN BEGINNING 1.6 NM FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 641 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 277 FT RIGHT OF CENTERLINE, UP TO 661 FT MSL.

**NOTE: RWY 31:** TERRAIN 40 FT FROM DER, 477 FT RIGHT OF CENTERLINE, 245 FT MSL. TREES BEGINNING 54 FT FROM DER, 199 FT LEFT OF CENTERLINE, UP TO 309 FT MSL. TREES BEGINNING 81 FT FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 311 FT MSL. TREES, TERRAIN BEGINNING 108 FT FROM DER, 175 FT RIGHT OF CENTERLINE, UP TO 286 FT MSL. TREES BEGINNING 269 FT FROM DER, 25 FT RIGHT OF CENTERLINE, UP TO 294 FT MSL. TREES BEGINNING 469 FT FROM DER, 52 FT RIGHT OF CENTERLINE, UP TO 302 FT MSL. TREES BEGINNING 567 FT FROM DER, 67 FT RIGHT OF CENTERLINE, UP TO 327 FT MSL. TREES BEGINNING 1884 FT FROM DER, 117 FT RIGHT OF CENTERLINE, UP TO 330 FT MSL. TREES BEGINNING 2057 FT FROM DER, 9 FT RIGHT OF CENTERLINE, UP TO 338 FT MSL. TREES BEGINNING 2603 FT FROM DER, 240 FT RIGHT OF CENTERLINE, UP TO 339 FT MSL. TREE, TRANSMISSION LINE BEGINNING 2659 FT FROM DER, 46 FT LEFT OF CENTERLINE, UP TO 316 FT MSL. TREES BEGINNING 2884 FT FROM DER, 539 FT RIGHT OF CENTERLINE, UP TO 345 FT MSL. TREES BEGINNING 2898 FT FROM DER, 682 FT LEFT OF CENTERLINE, UP TO 319 FT MSL. TREES, POLE, TRANSMISSION LINE BEGINNING 2947 FT FROM DER, 29 FT RIGHT OF

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CENTERLINE, UP TO 349 FT MSL. TREES, TRANSMISSION LINE, POLE BEGINNING 3013 FT FROM DER, 72 FT LEFT OF CENTERLINE, UP TO 329 FT MSL. TREE 3102 FT FROM DER, 524 FT RIGHT OF CENTERLINE, 366 FT MSL. TRANSMISSION LINE 3135 FT FROM DER, 109 FT LEFT OF CENTERLINE, 82 FT AGL/338 FT MSL. TREES BEGINNING 3141 FT FROM DER, 469 FT LEFT OF CENTERLINE, UP TO 347 FT MSL. TREE 3146 FT FROM DER, 635 FT RIGHT OF CENTERLINE, 370 FT MSL. TREE 3159 FT FROM DER, 823 FT RIGHT OF CENTERLINE, 384 FT MSL. TREES, TRANSMISSION LINE, POLE BEGINNING 3231 FT FROM DER, 662 FT RIGHT OF CENTERLINE, UP TO 399 FT MSL. TREE 3264 FT FROM DER, 274 FT LEFT OF CENTERLINE, 363 FT MSL. TREES, TRANSMISSION LINES, POLE BEGINNING 3290 FT FROM DER, 160 FT RIGHT OF CENTERLINE, UP TO 418 FT MSL. TREES BEGINNING 3332 FT FROM DER, 67 FT LEFT OF CENTERLINE, UP TO 376 FT MSL. TREES, TRANSMISSION LINES, TERRAIN BEGINNING 3466 FT FROM DER, 4 FT RIGHT OF CENTERLINE, UP TO 434 FT MSL. TREES BEGINNING 3493 FT FROM DER, 169 FT LEFT OF CENTERLINE, UP TO 388 FT MSL. TREES BEGINNING 3645 FT FROM DER, 506 FT LEFT OF CENTERLINE, UP TO 390 FT MSL. TREES BEGINNING 3739 FT FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 408 FT MSL. TREES BEGINNING 4057 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 418 FT MSL. TREES, TERRAIN BEGINNING 4771 FT FROM DER, 317 FT RIGHT OF CENTERLINE, UP TO 458 FT MSL. TREES, BUILDINGS BEGINNING 4865 FT FROM DER, 146 FT RIGHT OF CENTERLINE, UP TO 461 FT MSL. TREES BEGINNING 4964 FT FROM DER, 180 FT LEFT OF CENTERLINE, UP TO 420 FT MSL. TREES, TERRAIN, POLES BEGINNING 5109 FT FROM DER, 7 FT RIGHT OF CENTERLINE, UP TO 469 FT MSL. TREES, BUILDINGS BEGINNING 5280 FT FROM DER, 282 FT LEFT OF CENTERLINE, UP TO 423 FT MSL. TREE 5391 FT FROM DER, 301 FT LEFT OF CENTERLINE, 425 FT MSL. TREES BEGINNING 5450 FT FROM DER, 14 FT LEFT OF CENTERLINE, UP TO 426 FT MSL. TREES BEGINNING 5607 FT FROM DER, 3 FT LEFT OF CENTERLINE, UP TO 432 FT MSL. TREE 1.4 NM FROM DER, 2700 FT LEFT OF CENTERLINE, 464 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2183 FT LEFT OF CENTERLINE, UP TO 493 FT MSL. TREES BEGINNING 1.4 NM FROM DER, 2103 FT LEFT OF CENTERLINE, UP TO 503 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1800 FT LEFT OF CENTERLINE, UP TO 510 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 1803 FT LEFT OF CENTERLINE, UP TO 518 FT MSL. TREES BEGINNING 1.5 NM FROM DER, 2256 FT LEFT OF CENTERLINE, UP TO 538 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 2715 FT LEFT OF CENTERLINE, UP TO 552 FT MSL. TREE 1.7 NM FROM DER, 1878 FT RIGHT OF CENTERLINE, 513 FT MSL. TREE 1.7 NM FROM DER, 2415 FT RIGHT OF CENTERLINE, 518 FT MSL. TREES BEGINNING 1.7 NM FROM DER, 3132 FT LEFT OF CENTERLINE, UP TO 558 FT MSL. TREES BEGINNING 1.8 NM FROM DER, 2020 FT RIGHT OF CENTERLINE, UP TO 525 FT MSL. TREE 1.9 NM FROM DER, 2660 FT RIGHT OF CENTERLINE, 531 FT MSL. TREE 1.9 NM FROM DER, 2137 FT RIGHT OF CENTERLINE, 574 FT MSL. TREES, BUILDING BEGINNING 2 NM FROM DER, 1846 FT RIGHT OF CENTERLINE, UP TO 626 FT MSL. TREES BEGINNING 2.1 NM FROM DER, 2523 FT LEFT OF CENTERLINE, UP TO 570 FT MSL. TREE 2.2 NM FROM DER, 3232 FT LEFT OF CENTERLINE, 579 FT MSL. TREE 2.2 NM FROM DER, 3506 FT LEFT OF CENTERLINE, 585 FT MSL. TREES BEGINNING 2.2 NM FROM DER, 3519 FT LEFT OF CENTERLINE, UP TO 597 FT MSL. TREE 2.3 NM FROM DER, 3950 FT LEFT OF CENTERLINE, 595 FT MSL.

**CONTROLLING OBSTACLES:**

**RWY 13:** 586 FT MSL TREE 414852.04N/0715153.64W (CLIMB GRADIENT), 970 FT MSL AAO 414828.09N/0714853.30W (CLIMB-TO ALTITUDE)  
**RWY 31:** 586 FT MSL TREE 414935.26N/0715641.59W (CLIMB GRADIENT), 632 FT MSL TREE 414927.13N/0715700.26W (CLIMB-TO ALTITUDE), 626 FT MSL TREE 415039.10N/0715622.16W (CEILING), 595 FT MSL TREE 414954.66N/0715731.49W (VISIBILITY), 434 FT MSL TREE 414946.57N/0715449.65W (CLIMB GRADIENT, CLIMB-TO ALTITUDE)  
**VCOA:** 883 FT MSL AAO 415104.44N/0715058.68W

**REMARKS:**

<b>FLIGHT INSPECTED BY:</b>	<i>Digitally signed by</i> <b>BEV L BORDY</b>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
BOB S PRESSLER	Apr 20, 2018	FICO	4/17/18
<b>DEVELOPED BY:</b>	<i>Digitally signed by</i> <b>BEV L BORDY</b>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
LONNIE EVERHART (KELLIE BARNES)	Apr 20, 2018	AJV-5400	11/09/2017
<b>APPROVED BY:</b>	<i>Digitally signed by</i> <b>BEV L BORDY</b>	<b>OFFICE SYMBOL:</b>	<b>DATE:</b>
LONNIE EVERHART	Apr 20, 2018	AJV-5400	

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**COORDINATED WITH:**

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

**OTHER:**

**CHANGES - REASONS:**

1. RWY 13 TAKEOFF MINIMUMS CHANGED FROM 700-2, OR STANDARD WITH MINIMUM CLIMB OF 300 FEET PER NM TO 1100 TO STANDARD WITH

QUALITY  
8  
CHECKED

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- MINIMUM CLIMB OF 340 FT PER NM TO 900 OR 1100-3 FOR VCOA - NEW SURVEY AND TO MEET CURRENT DEPARTURE CRITERIA.
2. RWY 31 TAKEOFF MINIMUMS CHANGED FROM STANDARD TO 400-3 WITH MINIMUM CLIMB OF 270 FT PER NM TO 800 OR STANDARD WITH MINIMUM CLIMB OF 470 TO 500 OR 1100-3 FOR VCOA - NEW SURVEY AND TO MEET CURRENT DEPARTURE CRITERIA.
3. ADDED VCOA FOR RWY 13 AND RWY 31 - ALLOWS DEPARTURES FOR AIRCRAFT UNABLE TO FLY CLIMB GRADIENTS/8260.46F TABLE 2-1-1 AND APPENDIX D, SECTION 1.
4. UPDATE CONTROLLING OBSTACLES ALL RWYS - NEW SURVEY DATA.
5. UPDATED TAKEOFF OBSTACLE NOTES ALL RWYS - NEW SURVEY DATA.

