

**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.

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
READING, PA	READING RGNL/CARL A SPAATZ FIELD	19 JULY 2018	5A

TAKEOFF MINIMUMS:

RWY 13: STANDARD WITH MINIMUM CLIMB OF 445 FT PER NM TO 1700.

RWY 18: STANDARD

RWY 31: 500- 2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 430 FT PER NM TO 900.

RWY 36: 400-2 OR STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 510.

TEXTUAL DEPARTURE PROCEDURES:

RWY 18: CLIMB HEADING 184.17 TO 1400 BEFORE TURNING LEFT.

RWY 31: CLIMB HEADING 313.28 TO 900 BEFORE TURNING RIGHT.

RWY 36: CLIMB HEADING 004.17 TO 1100 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 13: NAVAID 9 FT FROM DER, 54 FT LEFT OF CENTERLINE, 1 FT AGL/330 FT MSL.

POLE 67 FT FROM DER, 413 FT RIGHT OF CENTERLINE, 23 FT AGL/354 FT MSL.

TOWER 96 FT FROM DER, 476 FT RIGHT OF CENTERLINE, 40 FT AGL/372 FT MSL.

ANTENNA, BUILDING BEGINNING 96 FT FROM DER, 377 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/373 FT MSL.

TREES BEGINNING 871 FT FROM DER, 512 FT RIGHT OF CENTERLINE, UP TO 378 FT MSL.

TREE 1690 FT FROM DER, 282 FT LEFT OF CENTERLINE, 376 FT MSL.

TREE 2521 FT FROM DER, 330 FT LEFT OF CENTERLINE, 398 FT MSL.

NOTE: RWY 18: NAVAID 8 FT FROM DER, 54 FT LEFT OF CENTERLINE, 1 FT AGL/343 FT MSL.

BUILDING 61 FT FROM DER, 488 FT RIGHT OF CENTERLINE, 6 FT AGL/352 FT MSL.

TREE 915 FT FROM DER, 663 FT LEFT OF CENTERLINE, 385 FT MSL.

NOTE: RWY 31: NAVAID 10 FT FROM DER, 55 FT RIGHT OF CENTERLINE, 1 FT AGL/344 FT MSL.

TREES BEGINNING 5385 FT FROM DER, 1761 FT RIGHT OF CENTERLINE, UP TO 518 FT MSL.

TREE, POLE BEGINNING 5671 FT FROM DER, 1937 FT RIGHT OF CENTERLINE, UP TO 548 FT MSL.

TREE, POLE BEGINNING 6045 FT FROM DER, 1640 FT RIGHT OF CENTERLINE, UP TO 568 FT MSL.

TREES BEGINNING 1 NM FROM DER, 1224 FT RIGHT OF CENTERLINE, UP TO 582 FT MSL.

TREES BEGINNING 1 NM FROM DER, 1273 FT RIGHT OF CENTERLINE, UP TO 655 FT MSL.

TREE 1.1 NM FROM DER, 1972 FT RIGHT OF CENTERLINE, 666 FT MSL.

TREE, TERRAIN, ELECTRICAL_SYSTEM, WINDMILL BEGINNING 1.1 NM FROM DER, 465 FT RIGHT OF CENTERLINE, UP TO 702 FT MSL.

TREES BEGINNING 1.8 NM FROM DER, 1753 FT RIGHT OF CENTERLINE, UP TO 709 FT MSL.

TREE 1.8 NM FROM DER, 2179 FT RIGHT OF CENTERLINE, 727 FT MSL.

TREE, BUILDING BEGINNING 1.8 NM FROM DER, 1645 FT RIGHT OF CENTERLINE, UP TO 752 FT MSL.

TREES BEGINNING 1.9 NM FROM DER, 887 FT RIGHT OF CENTERLINE, UP TO 776 FT MSL.

NOTE: RWY 36: NAVAID 10 FT FROM DER, 54 FT LEFT OF CENTERLINE, 1 FT AGL/292 FT MSL.

NAVAID, TERRAIN BEGINNING 10 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/292 FT MSL.

TERRAIN 57 FT FROM DER, 55 FT RIGHT OF CENTERLINE, 299 FT MSL.

TERRAIN BEGINNING 89 FT FROM DER, 174 FT LEFT OF CENTERLINE, UP TO 306 FT MSL.

TREES BEGINNING 485 FT FROM DER, 210 FT LEFT OF CENTERLINE, UP TO 341 FT MSL.

TREES BEGINNING 734 FT FROM DER, 682 FT RIGHT OF CENTERLINE, UP TO 338 FT MSL.

TREE 908 FT FROM DER, 601 FT RIGHT OF CENTERLINE, 345 FT MSL.

TREES BEGINNING 1049 FT FROM DER, 0 FT OF CENTERLINE, UP TO 346 FT MSL.

TREES BEGINNING 1385 FT FROM DER, 269 FT LEFT OF CENTERLINE, UP TO 355 FT MSL.

TREES BEGINNING 1497 FT FROM DER, 124 FT LEFT OF CENTERLINE, UP TO 357 FT MSL.

TREE 2543 FT FROM DER, 336 FT RIGHT OF CENTERLINE, 356 FT MSL.

TREE 2581 FT FROM DER, 165 FT RIGHT OF CENTERLINE, 358 FT MSL.

TREE 3410 FT FROM DER, 96 FT LEFT OF CENTERLINE, 382 FT MSL.

TREES BEGINNING 3555 FT FROM DER, 161 FT RIGHT OF CENTERLINE, UP TO 450 FT MSL.

TREE 1.3 NM FROM DER, 2599 FT LEFT OF CENTERLINE, 537 FT MSL.

TREE 1.4 NM FROM DER, 2528 FT LEFT OF CENTERLINE, 575 FT MSL.

TREES BEGINNING 1.4 NM FROM DER, 2402 FT LEFT OF CENTERLINE, UP TO 603 FT MSL.

TREE 1.4 NM FROM DER, 2508 FT LEFT OF CENTERLINE, 613 FT MSL.

TREES BEGINNING 1.4 NM FROM DER, 2042 FT LEFT OF CENTERLINE, UP TO 631 FT MSL.

TREES BEGINNING 1.5 NM FROM DER, 1982 FT LEFT OF CENTERLINE, UP TO 672 FT MSL.

TREE 1.5 NM FROM DER, 2193 FT LEFT OF CENTERLINE, 545 FT MSL.

QUALITY
16
CHECKED

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READING, PA	READING RGNL/CARL A SPAATZ FIELD	19 JULY 2018	5A

CONTROLLING OBSTACLES:

RWY 13: 1349 FEET MSL TOWER 402055.10N/0755405.10W (CLIMB-TO ALTITUDE), 1338 FEET MSL TOWER 402117.00N/0755351.99W (CLIMB GRADIENT).

RWY 31: 702 FEET MSL TREE 402354.20N/0755940.58W (CG/CGTA), 776 FEET MSL TREE 402421.43N/0760035.80W (CEILING), 658 FEET MSL TREE 402437.82N/0760036.67W (VISIBILITY).

RWY 36: 450 FEET MSL TREE 402341.86N/0755735.75W (CLIMB GRADIENT), 672 FEET MSL TREE 402432.81N/0755831.37W (CLIMB-TO ALTITUDE/CEILING), 245 FEET MSL TREE 402437.46N/0755830.80W (VISIBILITY).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 18: 1349 FEET MSL TOWER 402055.10N/0755406.10W.

RWY 31: 702 FEET MSL TREE 402354.20N/0755940.58W.

RWY 36: 450 FEET MSL TREE 402341.86N/0755735.75W.

REMARKS:

VCOA NOT DEVELOPED PER FPT.

FLIGHT INSPECTED BY:	<i>Digitally signed by</i> BEV L BORDY Apr 19, 2018	OFFICE SYMBOL:	DATE:
STEPHEN BAUER		FICO	4/17/18
DEVELOPED BY:	<i>Digitally signed by</i> BEV L BORDY Apr 19, 2018	OFFICE SYMBOL:	DATE:
LONNIE EVERHART (KEITH JONES)		AJB-5400	09/18/2017
APPROVED BY:	<i>Digitally signed by</i> BEV L BORDY Apr 19, 2018	OFFICE SYMBOL:	DATE:
LONNIE EVERHART		AJV-5400	

REQUIRED EFFECTIVE DATE:

ROUTINE

COORDINATED WITH:

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

OTHER:

ZNY, AMGR, KRDG, ATCT.

CHANGES - REASONS:

CHANGES:

1. CHANGED RWY 13 TAKEOFF MINIMUMS FROM STANDARD TO STANDARD WITH MINIMUM CLIMB OF 445 FT PER NM TO 1700 - NEW OBSTACLE DATA AVAILABLE.
2. CHANGED RWY 31 TAKEOFF MINIMUMS FROM 500- 2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 413FT PER NM TO 900 TO 500- 2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 430FT PER NM TO 900 - NEW OBSTACLE DATA AVAILABLE.
3. CHANGED RWY 36 TAKEOFF MINIMUMS FROM 400- 2 OR STANDARD WITH MINIMUM CLIMB OF 351 FT PER NM TO 800 TO STANDARD WITH MINIMUM CLIMB OF 360 FT PER NM TO 510 - NEW OBSTACLE DATA AVAILABLE.
4. UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE DATA AVAILABLE.

QUALITY
16
CHECKED