

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

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City, State	Airport	Effective Date	Amdt. No.
FREDERICK, MD	FREDERICK MUNI	5 MARCH 2015	4

TAKEOFF MINIMUMS:

RWY 23, STANDARD.

RWY 5, 300-2 OR STANDARD WITH MINIMUM CLIMB OF 260 FT PER NM TO 600.

RWY 12, 500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 395 FT PER NM TO 1000.

RWY 30, STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 900 OR 1500-2 1/2 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

RWY 5: CLIMBING LEFT TURN HEADING 340.00 AND ON FDK VOR R-010 TO 2100 BEFORE PROCEEDING ON COURSE.

RWY 12: CLIMB HEADING 123.95 TO 900 BEFORE PROCEEDING WESTBOUND.

RWY 23: CLIMB HEADING 228.50 TO 1200 BEFORE TURNING RIGHT.

RWY 30: CLIMBING RIGHT TURN HEADING 040.00 AND ON FDK R-010 TO 2400 BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

RWY 30: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS FREDERICK MUNI AIRPORT AT OR ABOVE 1700 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5, LIGHT AND SIGN BEGINNING 44 FT FROM DER, 123 FT LEFT OF CENTERLINE, UP TO 3 FT AGL/286 FT MSL. TREES BEGINNING 1467 FT FROM DER, 630 FT RIGHT OF CENTERLINE, UP TO 90 FT AGL/389 FT MSL. TREES BEGINNING 2645 FT FROM DER, 610 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/394 FT MSL. TREES BEGINNING 4525 FT FROM DER, 597 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/434 FT MSL. ELEVATOR AND TREES BEGINNING 4824 FT FROM DER, 341 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/435 FT MSL. TREES 1.2 NM FROM DER, 1562 FT RIGHT OF CENTERLINE, UP TO 95 FT AGL/514 FT MSL. TREES 1.4 NM FROM DER, 936 FT RIGHT OF CENTERLINE, UP TO 89 FT AGL/508 FT MSL.

NOTE: RWY 12, WALL AND TREES BEGINNING 45 FT FROM DER, 283 FT RIGHT OF CENTERLINE, UP TO 14 FT AGL/308 FT MSL. TREES BEGINNING 1312 FT FROM DER, 228 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/391 FT MSL. TREES BEGINNING 1667 FT FROM DER, 75 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/362 FT MSL. BUILDING AND TREES BEGINNING 3292 FT FROM DER, 45 FT LEFT OF CENTERLINE, UP TO 113 FT AGL/552 FT MSL. TOWER, POLE, GRAIN SILOS, AND TREES BEGINNING 3365 FT FROM DER, 41 FT FROM DER, UP TO 101 FT AGL/520 FT MSL. TREES 2.1 NM FROM DER, 1377 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/779 FT MSL. TREES 2.3 NM FROM DER, 2711 FT LEFT OF CENTERLINE, UP TO 107 FT AGL/636 FT MSL.

NOTE: RWY 23, VEHICLES ON ROAD AND TREES BEGINNING 134 FT FROM DER, 376 FT RIGHT OF CENTERLINE, UP TO 21 FT AGL/327 FT MSL. POLE, BUILDINGS, AND TREES BEGINNING 737 FT FROM DER, 286 FT RIGHT OF CENTERLINE, UP TO 47 FT AGL/362 FT MSL. POLES AND TREES BEGINNING 1477 FT FROM DER, 41 FT LEFT OF CENTERLINE, UP TO 72 FT AGL/411 FT MSL. TREES BEGINNING 1701 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/397 FT MSL.

NOTE: RWY 30, POLES AND TREES BEGINNING 4 FT FROM DER, 320 FT RIGHT OF CENTERLINE, UP TO 22 FT AGL/316 FT MSL. ANTENNA ON BUILDING AND TREES BEGINNING 1255 FT FROM DER, 750 FT LEFT OF CENTERLINE, UP TO 56 FT AGL/335 FT MSL. TREES BEGINNING 1096 FT FROM DER, 351 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/336 FT MSL. TREES 1962 FT FROM DER, 105 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/356 FT MSL.

CONTROLLING OBSTACLES:

RWY 5: 435 FT MSL ELEVATOR 392548.00N/0772123.00W (CLIMB GRADIENT). 514 FT MSL TREE 392600.99N/0772048.23W (CLIMB-TO ALTITUDE, CEILING). 508 FT MSL TREE 392613.54N/0772044.90W (VISIBILITY).

RWY 12: 552 FT MSL TREE 392502.70N/0772054.88W (CLIMB GRADIENT). 779 FT MSL TREE 392426.12N/0771933.57W (CLIMB-TO ALTITUDE, CEILING). 636 FT MSL TREE 392432.58N/0771911.87W (VISIBILITY).

RWY 30: 1739 FT MSL AAO 393025.93N/0772814.62W (CLIMB GRADIENT). 655 FT MSL MOBILE CRANE 392625.30N/0772527.41W (CLIMB-TO ALTITUDE).

RWY 30 (VCOA): 791 FT MSL TOWER 392630.00N/07718383.00W (VCA). 1949 FT MSL TOWER 392940.56N/0772955.32W (DIVERSE).

(CONTINUED)



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CONTROLLING OBSTACLES (CONTINUED):

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 5 – 2231 FT MSL TOWER 393436.40N/0772917.00W.

RWY 12, 30 – 1949 FT MSL TOWER 392940.56N/0772955.32W.

RWY 23 – 1819 FT MSL AAO 392812.70N/0772940.30W.



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REMARKS:

1. RETAINED PUBLISHED 260 FT PER NM CLIMB GRADIENT FOR RWY 5 (COMPUTED VALUE 252 FT PER NM).
2. RWY 12 CLIMB GRADIENT ROUNDED TO 395 FT PER NM FOR PUBLICATION (COMPUTED VALUE 393 FT PER NM).
3. RWY 30 CLIMB GRADIENT ROUNDED TO 285 FT PER NM FOR PUBLICATION (COMPUTED VALUE 279 FT PER NM).

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

STEPHEN BAUER *Digitally signed by*
JULIE A MORGAN 12/18/2014
Dec 23, 2014

ROUTINE

DEVELOPED BY:

PETER GUIMOND *Digitally signed by*
JULIE A MORGAN AJV-352 9/22/2014
Dec 23, 2014

APPROVED BY:

SUSAN CRUMB *Digitally signed by*
JULIE A MORGAN AJV-352 12/23/2014
Dec 23, 2014

COORDINATED WITH:

ALPA, AOPA, NBAA, ZDC, POTOMAC APP CON, FDK TOWER, ARPT MGR

CHANGES:

1. AMENDED RWY 5 CEIL/VIS FROM 400-2 1/2 TO 300-2.
2. AMENDED RWY 5 CLIMB TO ALTITUDE FROM 1700 TO 2100. ADDED INITIAL TAKEOFF HEADING OF 340.00 DEGREES.
3. AMENDED RWY 12 TEXTUAL DP TO READ CLIMB HEADING 123.95 TO 900 BEFORE PROCEEDING WESTBOUND.
4. AMENDED RWY 12 CLIMB GRADIENT FROM 385 FT PER NM TO 395 FT PER NM.
5. AMENDED RWY 23 DEPARTURE COURSE FROM 228.49 TO 228.50.
6. AMENDED RWY 30 CLIMB GRADIENT/CLIMB TO ALTITUDE FROM 290 FT PER NM TO 700 TO 285 FT PER NM TO 900.
7. ADDED INITIAL TAKEOFF HEADING OF 040.00 DEGREES TO RWY 30 TEXTUAL DP INSTRUCTIONS.
8. MOVED RWY 30 VCOA INSTRUCTIONS TO VISUAL CLIMB OVER AIRPORT BLOCK AND REFORMATTED ATC APPROVAL WORDING.
9. AMENDED CONTROLLING OBSTACLES AND OBSTACLES MANDATING ODP ROUTE DEVELOPMENT FOR ALL RWYS.
10. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RWYS.

REASONS:

1. NEW OBSTACLE STUDY.
2. NEW CONTROLLING OBSTACLE IDENTIFIED. INITIAL HEADING ADDED TO ASSIST NAVIGATING TO INTERCEPT FDK R-010.
3. OBSTACLES PROHIBIT WESTBOUND TURN UNTIL REACHING 900, ALL OTHER DIRECTIONS CLEAR.
4. NEW OBSTACLE STUDY.
5. MATCH CURRENT AIRNAV RWY BEARING VALUE.
6. NEW OBSTACLE STUDY.
7. ASSIST NAVIGATING TO INTERCEPT FDK R-010.
8. IAW CURRENT DOCUMENTATION POLICY.
9. NEW OBSTACLE STUDY.
10. NEW OBSTACLE STUDY.

