

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.
BARRE/MONTPELIER, VT	EDWARD F KNAPP STATE	13 NOVEMBER 2014	5

**TAKEOFF MINIMUMS:**

RWY 05, 35 STANDARD

RWY 17, 500-2 WITH MINIMUM CLIMB OF 270 FT PER NM TO 2700 FT OR 1900-3 FOR VCOA.

RWY 23, 1900-3 FOR VCOA.

**TEXTUAL DEPARTURE PROCEDURES:**

RWY 05 – CLIMB HEADING 048.38 TO 2100 THEN CLIMBING LEFT TURN TO 3900 DIRECT MPV VOR/DME BEFORE PROCEEDING ON COURSE.

RWY 17 – CLIMB HEADING 167.68 TO 2600 THEN CLIMBING LEFT TURN TO 3500 DIRECT MPV VOR/DME BEFORE PROCEEDING ON COURSE.

RWY 35 – CLIMBING RIGHT TURN TO 3900 DIRECT MPV VOR/DME BEFORE PROCEEDING ON COURSE.

RWY 17, 23 OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS EDWARD F KNAPP STATE AIRPORT AT OR ABOVE 2900 FT MSL.

**TAKEOFF OBSTACLE NOTES:**

NOTE: RWY 05, VEHICLES ON ROAD BEGINNING 0.69 FT FROM DER, CROSSING CENTERLINE, UP TO 15 FT AGL/ 1133 FT MSL. TERRAIN 104 FT FROM DER, 253 FT LEFT OF CENTERLINE, UP TO 1089 FT MSL. TREES BEGINNING 347 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1199 FT MSL.

NOTE: RWY 17, TOWER 80 FT FROM DER, 368 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/ 1223 FT MSL. TREES BEGINNING 139 FT FROM DER, 409 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/ 1243 FT MSL. NAVAID 141 FT FROM DER, UP TO 5 FT AGL/ 1171 FT MSL. NAVAID 199 FT FROM DER, UP TO 7 FT AGL/ 1172 FT MSL. POLE 257 FT FROM DER, 165 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/ 1178 FT MSL. TREES 297 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1193 FT MSL. TREES 667 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1259 FT MSL. FT MSL. BUILDING 1318 FT FROM DER, 254 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/ 1221 FT MSL. TOWER 1318 FT FROM DER, 669 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/ 1208 FT MSL. TREES 1498 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1309 FT MSL. POLE 1703 FT FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/ 1243 FT MSL. TREES 1898 FT FROM DER, 726 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/ 1387 FT MSL. POLE 1970 FT FROM DER, 539 FT RIGHT OF CENTERLINE, UP TO 27 FT AGL/ 1334 FT MSL. TREES 2088 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1384 FT MSL. TREES 4872 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1579 FT MSL.

NOTE: RWY 23, POLES BEGINNING 2 FT FROM DER, 335 FT LEFT OF CENTERLINE, UP TO 39 FT AGL/ 1167 FT MSL. FENCE 49 FT FROM DER, 276 FT LEFT OF CENTERLINE, UP TO 7 FT AGL/ 1127 FT MSL. TOWER 561 FT FROM DER, 573 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/ 1215 FT MSL. BUILDING 603 FT FROM DER, 426 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/ 1159 FT MSL. TOWER 615 FT FROM DER, 580 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/ 1195 FT MSL. ROD 615 FT FROM DER, 580 FT LEFT OF CENTERLINE, UP TO 60 FT AGL/ 1195 FT MSL. TREES BEGINNING 1263 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1183 FT MSL. POLE 2801 FT FROM DER, 702 FT LEFT OF CENTERLINE, UP TO 27 FT AGL/ 1202 FT MSL. POLE 2867 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/ 1233 FT MSL. TREES 2880 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1243 FT MSL. TOWER 3010 FT FROM DER, 404 FT RIGHT OF CENTERLINE, UP TO 36 FT AGL/ 1221 FT MSL. TREES 3299 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1275 FT MSL. TREES 4491 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1389 FT MSL. TREES 4944 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1459 FT MSL. TREES 6298 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1499 FT MSL. TREES 7273 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1559 FT MSL.

NOTE: RWY 35, BUSH 74 FT FROM DER, 288 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/ 1097 FT MSL. BUILDING 81 FT FROM DER, 488 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL/ 1094 FT MSL. TREES BEGINNING 411 FT FROM DER, CROSSING CENTERLINE, UP TO 100 FT AGL/ 1132 FT MSL.

**CONTROLLING OBSTACLES:**

RWY 17: 1499 FT MSL TREE 441007.46N/0723307.37W, 1387 FT MSL TREE 441120.45N/0723327.88W, 1579 FT MSL TREE 441035.66N/0723302.66W, 2259 FT MSL AAO 440727.77N/0722854.88W

RWY 23: 1439 FT MSL TREE 441126.63N/0723402.82W, 2099 FT MSL AAO 440827.94N/0723516.86W

VCOA: 2645 FT MSL AAO 442026.54N/0723222.12W

**OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:**

RWY 05: 3239 FT MSL AAO 441403.90N/0722119.61W, 3552 FT MSL AAO 441223.59N/0721933.08W

RWY 17: 3570 FT MSL AAO 441224.00N/0721936.00W

RWY 23: 2645 FT MSL AAO 440851.00N/0723709.00W

RWY 35: 3803 FT MSL AAO 442406.00N/0723836.00W



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**REMARKS:**

**FLIGHT INSPECTED BY:**

KEVIN RIESE

4/21/2014

**REQUIRED EFFECTIVE DATE:**

ROUTINE

**DEVELOPED BY:**

PETE GETZ  
(CHRIS STEWART)

AJV-352

11/22/13

**APPROVED BY:**

SUE CRUMB

AJV-352

**COORDINATED WITH:**

ATA, ALPA, APA, AOPA, NBAA, ZBW, AMGR

**CHANGES:**

1. INCREASED RWY 17 CEILING/VISIBILITY FROM 400-1 TO 500-2.
2. REMOVED CEILING/ VISIBILITY.
3. INCREASED RWY 23 CLIMB GRADIENT FROM 400 FT/NM TO 507 FT/NM.
4. DECREASED RWY 23 CLIMB-TO-ALTITUDE FROM 2600 FT TO 2000 FT.
5. ADDED RWY 17 CLIMB-TO-ALTITUDE AND CLIMB GRADIENT.
6. DELETED RWY 17 CLIMB IN HOLDING PATTERN.
7. UPDATED TAKEOFF OBSTACLE NOTES.
8. UPDATED CONTROLLING OBSTACLES.
9. CHANGED RWY 05 TURN FROM RIGHT TO LEFT.
10. ADDED VCOA TO RWY 17 AND 23.

**REASONS:**

- 1-8. NEW OBSTACLES.
9. PROVIDES SHORTER ROUTE AND LOWER CLIMB-TO-ALTITUDE.
10. IAW 8260.3B VOL4 1.2.3 ...OBSTACLES MORE THAN 3 SM FROM DER REQUIRE CG GREATER THAN 200 FT/NM.

9/16/2014: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/22/2013.

1. REMOVED 930'/NM CLIMB GRADIENT FROM RWY 17 TAKEOFF MINIMUMS, PRB DISAPPROVED..
2. REMOVED 507'/NM CLIMB GRADIENT FROM RWY 23, PRB DISAPPROVED.
3. REWORDED TEXTUAL DEPARTURE PROCEDURES FOR RWY 17 AND 23 PER CURRENT GUIDANCE.

