

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

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
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City, State	Airport	Effective Date	Amdt. No.
PITTSBURGH, PA	PITTSBURGH INTL	15 SEPTEMBER 2016	5

TAKEOFF MINIMUMS:

RWY 10C, 10R, 14, 28C, 28L, 28R, STANDARD.

RWY 10L, 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER.

RWY 32, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 1500.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY R10C, POLE 24 FT FROM DER, 300 FT LEFT OF CENTERLINE, 3 FT AGL/1140 FT MSL. TREE 2605 FT FROM DER, 461 FT LEFT OF CENTERLINE, 1222 FT MSL. TREE 3174 FT FROM DER, 747 FT LEFT OF CENTERLINE, 1255 FT MSL. TREES BEGINNING 3221 FT FROM DER, 911 FT LEFT OF CENTERLINE, UP TO 1263 FT MSL. TREES BEGINNING 4539 FT FROM DER, 1348 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/1255 FT MSL. TREE 4700 FT FROM DER, 1489 FT RIGHT OF CENTERLINE, 50 FT AGL/1257 FT MSL. TREE 4728 FT FROM DER, 1504 FT RIGHT OF CENTERLINE, 1261 FT MSL. TREE 4739 FT FROM DER, 1629 FT RIGHT OF CENTERLINE, 68 FT AGL/1263 FT MSL. TREE 4918 FT FROM DER, 1450 FT RIGHT OF CENTERLINE, 69 FT AGL/1264 FT MSL. TREE 4963 FT FROM DER, 1298 FT RIGHT OF CENTERLINE, 77 FT AGL/1266 FT MSL. TREE 4976 FT FROM DER, 1363 FT RIGHT OF CENTERLINE, 74 FT AGL/1268 FT MSL.

NOTE: RWY 10L, VERTICAL STRUCTURES BEGINNING 24 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/1175 FT MSL. VERTICAL STRUCTURES BEGINNING 24 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/1175 FT MSL. AIRCRAFT ON RAMPS BEGINNING 199 FT FROM DER, 250 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/1232 FT MSL. TREE 1380 FT FROM DER, 724 FT LEFT OF CENTERLINE, 70 FT AGL/1229 FT MSL. TREES BEGINNING 1386 FT FROM DER, 672 FT LEFT OF CENTERLINE, UP TO 1233 FT MSL. TOWER 4175 FT FROM DER, 863 FT LEFT OF CENTERLINE, 112 FT AGL/1282 FT MSL. WATER TOWER 1.0 NM FROM DER, 1786 FT RIGHT OF CENTERLINE, 200 FT AGL/1340 FT MSL.

NOTE: RWY 10R, VERTICAL STRUCTURES BEGINNING 9 FT FROM DER, 40 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/1123 FT MSL. VERTICAL STRUCTURES BEGINNING 9 FT FROM DER, 40 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/1124 FT MSL. STREET SIGN 55 FT FROM DER, 307 FT LEFT OF CENTERLINE, 3 FT AGL/1125 FT MSL. TREE 415 FT FROM DER, 586 FT LEFT OF CENTERLINE, 10 FT AGL/1137 FT MSL. TREE 2905 FT FROM DER, 673 FT LEFT OF CENTERLINE, 1200 FT MSL. TREES BEGINNING 4568 FT FROM DER, 1146 FT RIGHT OF CENTERLINE, UP TO 1252 FT MSL. POLES BEGINNING 4587 FT FROM DER, 1124 FT LEFT OF CENTERLINE, UP TO 49 FT AGL/1241 FT MSL. TREES BEGINNING 4595 FT FROM DER, 151 FT RIGHT OF CENTERLINE, UP TO 70 FT AGL/1255 FT MSL. TREES BEGINNING 5041 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/1257 FT MSL. TREE 5069 FT FROM DER, 306 FT RIGHT OF CENTERLINE, 1261 FT MSL. TREES BEGINNING 5080 FT FROM DER, 296 FT RIGHT OF CENTERLINE, UP TO 68 FT AGL/1263 FT MSL. TREE 5103 FT FROM DER, 35 FT LEFT OF CENTERLINE, 62 FT AGL/1251 FT MSL. TREE 5259 FT FROM DER, 252 FT RIGHT OF CENTERLINE, 69 FT AGL/1264 FT MSL. TREE 5304 FT FROM DER, 101 FT RIGHT OF CENTERLINE, 77 FT AGL/1266 FT MSL. TREE 5317 FT FROM DER, 165 FT RIGHT OF CENTERLINE, 74 FT AGL/1268 FT MSL.

NOTE: RWY 28C, POLES BEGINNING 123 FT FROM DER, 498 FT RIGHT OF CENTERLINE, UP TO 41 FT AGL/1149 FT MSL. AIRCRAFT ON TAXIWAYS BEGINNING 267 FT FROM DER, 489 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/1208 FT MSL.

NOTE: RWY 28L, TREE 2 FT FROM DER, 497 FT LEFT OF CENTERLINE, 46 FT AGL/1137 FT MSL. TREE 39 FT FROM DER, 497 FT LEFT OF CENTERLINE, 1144 FT MSL. TREE 2271 FT FROM DER, 1109 FT LEFT OF CENTERLINE, 1223 FT MSL.

NOTE: RWY 28R, VERTICAL STRUCTURES BEGINNING 9 FT FROM DER, 4 FT LEFT OF CENTERLINE, UP TO 1 FT AGL/1204 FT MSL. VERTICAL STRUCTURES BEGINNING 9 FT FROM DER, ON CENTERLINE, UP TO 1 FT AGL/1204 FT MSL. TREE 21 FT FROM DER, 490 FT RIGHT OF CENTERLINE, 19 FT AGL/1214 FT MSL. BUSH 71 FT FROM DER, 477 FT RIGHT OF CENTERLINE, 1215 FT MSL. POLE 643 FT FROM DER, 632 FT LEFT OF CENTERLINE, 25 FT AGL/1223 FT MSL. TREE 1808 FT FROM DER, 912 FT RIGHT OF CENTERLINE, 1273 FT MSL.

NOTE: RWY 32, VERTICAL STRUCTURES BEGINNING 10 FT FROM DER, 54 FT RIGHT OF CENTERLINE, UP TO 2 FT AGL/1149 FT MSL. VERTICAL STRUCTURES BEGINNING 10 FT FROM DER, 55 FT LEFT OF CENTERLINE, UP TO 2 FT AGL/1149 FT MSL. TREE 80 FT FROM DER, 376 FT LEFT OF CENTERLINE, 40 FT AGL/1151 FT MSL. POLE 453 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 37 FT AGL/1173 FT MSL. AIRCRAFT ON TAXIWAY 1372 FT FROM DER, 8 FT RIGHT OF CENTERLINE, 64 FT AGL/1214 FT MSL. AIRCRAFT ON TAXIWAYS BEGINNING 1612 FT FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/1216 FT MSL. AIRCRAFT ON TAXIWAY 1989 FT FROM DER, 190 FT LEFT OF CENTERLINE, 64 FT AGL/1224 FT MSL. AIRCRAFT ON TAXIWAY AND TREE BEGINNING 2166 FT FROM DER, 8 FT RIGHT OF CENTERLINE, UP TO 64 FT AGL/1221 FT MSL. AIRCRAFT ON TAXIWAY 2213 FT FROM DER, 352 FT LEFT OF CENTERLINE, 64 FT AGL/1226 FT MSL. TREE 2575 FT FROM DER, 1097 FT RIGHT OF CENTERLINE, 70 FT AGL/1229 FT MSL. TREE 2577 FT FROM DER, 1107 FT RIGHT OF CENTERLINE, 1233 FT MSL. AIRCRAFT ON TAXIWAYS BEGINNING 2580 FT FROM DER, 425 FT LEFT OF CENTERLINE, UP TO 64 FT AGL/1233 FT MSL.

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AIRCRAFT ON TAXIWAY 2942 FT FROM DER, 836 FT LEFT OF CENTERLINE, 64 FT AGL/1235 FT MSL. TREE 2943 FT FROM DER, 1213 FT RIGHT OF CENTERLINE, 73 FT AGL/1247 FT MSL. TREES BEGINNING 5831 FT FROM DER, 1271 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/1336 FT MSL. TOWER 1.1 NM FROM DER, 514 FT LEFT OF CENTERLINE, 95 FT AGL/1341 FT MSL. TOWER 1.1 NM FROM DER, 436 FT LEFT OF CENTERLINE, 106 FT AGL/1354 FT MSL. COMMUNICATION TOWER 1.1 NM FROM DER, 436 FT LEFT OF CENTERLINE, 102 FT AGL/1349 FT MSL.

CONTROLLING OBSTACLES:

RWY 10L: 1340 FT MSL WATER TOWER 402945.17N/0801242.08W.

RWY 32: 1336 FT MSL TREE 403040.05N/0801404.15W (CLIMB GRADIENT). 1354 FT MSL TOWER 403232.06N/0801435.23W (CLIMB-TO ALTITUDE, CEILING). 1349 FT MSL COMMUNICATIONS TOWER 403032.07N/0801435.24W (VISIBILITY).



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REMARKS:

1. RWY 10L CLIMB GRADIENT ROUNDED UP TO 215 FT PER NM FOR PUBLICATION (COMPUTED VALUE 213 FT PER NM).
2. RWY 32 CLIMB GRADIENT ROUNDED UP TO 255 FT PER NM FOR PUBLICATION (COMPUTED VALUE 252 FT PER NM).

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

BILL SETTLEMIRE *Digitally signed by*
DONALD H LANIER FICO 05/23/2016
May 27, 2016

ROUTINE

DEVELOPED BY:

PETER GUIMOND *Digitally signed by*
PETER R GUIMOND AJV-5412 05/03/2016
May 03, 2016

APPROVED BY:

MARLON ROBINSON *Digitally signed by*
DONALD H LANIER AJV-5410
May 27, 2016

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZOB, PIT APP CON, PIT ATCT, AMGR

CHANGES:

1. AMENDED RWY 10L TAKEOFF MINIMUMS FROM STANDARD TO 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 1400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1400 FT PRIOR TO DER.
2. AMENDED RWY 32 CLIMB GRADIENT FROM 200-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 240 FT PER NM TO 1500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2100 FT PRIOR TO DER TO READ 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 1500.
3. ADDED CONTROLLING OBSTACLE FOR RWY 10L.
4. AMENDED CONTROLLING OBSTACLES FOR RWY 32.
5. AMENDED TAKEOFF OBSTACLE NOTES FOR RWY 10C, 10L, 10R, 28C, 28L, 28R, AND 32.
6. DELETED TAKEOFF OBSTACLE NOTE FOR RWY 14.

REASONS:

- 1, 2. NEW CONTROLLING OBSTACLE IDENTIFIED USING SURVEY ADDED SINCE LAST AMENDMENT.
- 3, 4. DOCUMENTED AND FORMATTED IN ACCORDANCE WITH CURRENT DOCUMENTATION POLICY.
5. NEW OBSTACLE STUDY USING SURVEY ADDED SINCE LAST AMENDMENT. FORMATTED IN ACCORDANCE WITH CURRENT DOCUMENTATION POLICY.
6. 40:1 SURFACE IS CLEAR OF PENETRATIONS.

QUALITY
3
CHECKED