U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NATIONAL	**SEVEN**	**NATNL7.NATNL**	**SIX**	**20 AUG 15**	**15 OCTOBER 2015**

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1: CLIMBING LEFT TURN AS SOON AS PRACTICAL TO INTERCEPT DCA VOR/DME R-328 TO 5000 OR AS ASSIGNED, THENCE…
TAKEOFF RWY 4: CLIMBING RIGHT TURN AS SOON AS PRACTICAL TO INTERCEPT DCA VOR/DME R-070 TO 2000 OR AS ASSIGNED, THENCE…
TAKEOFF RWY 15: CLIMBING RIGHT TURN AS SOON AS PRACTICAL TO INTERCEPT DCA VOR/DME R-185 TO 5000 OR AS ASSIGNED, THENCE…
TAKEOFF RWY 19: CLIMB ON DCA VOR/DME R-185 TO 5000 OR AS ASSIGNED, THENCE…
TAKEOFF RWY 22: CLIMBING LEFT TURN AS SOON AS PRACTICAL TO INTERCEPT DCA VOR/DME R-185 TO 5000 OR AS ASSIGNED, THENCE…
TAKEOFF RWY 33: CLIMB ON DCA VOR/DME R-328 TO 5000 OR AS ASSIGNED, THENCE…

…EXPECT RADAR VECTORS TO FILED / ASSIGNED FIX. EXPECT CLEARANCE TO FILED ALTITUDE TEN (10) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RADAR REQUIRED.
NOTE: PILOTS SHALL COMPLY WITH RONALD REAGAN WASHINGTON NATL AIRPORT NOISE ABATEMENT AND PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES AS DEFINED IN AIRPORT/FACILITY DIRECTORY SPECIAL NOTICES.
NOTE: ATC ASSIGNED ONLY.

TAKEOFF MINIMUMS:
RWY 1, 600-2 WITH MINIMUM CLIMB OF 275 FT PER NM TO 1500 OR STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 800.
RWY 4, 300-2 OR STANDARD WITH MINIMUM CLIMB OF 210 FT PER NM TO 400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NOT LATER THAN 1400 FT PRIOR TO DER.
RWY 15, 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 215 FT PER NM TO 400, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1500 FT PRIOR TO DER.
RWY 19, 300-1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 205 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1200 FT PRIOR TO DER.
RWY 22, 500-2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 305 FT PER NM TO 600.
RWY 33, STANDARD WITH MINIMUM CLIMB OF 285 FT PER NM TO 700.

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TAKEOFF OBSTACLES NOTES:

NOTE: RWY 1, BUILDINGS BEGINNING 118 FT FROM DER, 332 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/22 FT MSL. FENCE 261 FT FROM DER, 514 FT LEFT OF CENTERLINE, 9 FT AGL/19 FT MSL. LIGHT POLE AND TREES BEGINNING 995 FT FROM DER, 210 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/49 FT MSL. TREES BEGINNING 1008 FT FROM DER, 499 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/72 FT MSL. TREES 1365 FT FROM DER, 333 FT RIGHT OF CENTERLINE, UP TO 50 FT AGL/51 FT MSL. TREES BEGINNING 1744 FT FROM DER, 152 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/71 FT MSL. MONUMENT 1.7 NM FROM DER, 1787 FT RIGHT OF CENTERLINE, 556 FT AGL/595 FT MSL.
NOTE: RWY 4, TERRAIN AND MICROWAVE SENSORS BEGINNING 3 FT FROM DER, 260 FT RIGHT OF CENTERLINE, UP TO 7 FT AGL/18 FT MSL. SIGN AND TOWER BEGINNING 857 FT FROM DER, 677 FT LEFT OF CENTERLINE, UP TO 72 FT AGL/84 FT MSL. SPIRE 1.6 NM FROM DER, 208 FT RIGHT OF CENTERLINE, 236 FT AGL/265 FT MSL.
NOTE: RWY 15, ELECTRICAL SYSTEMS BEGINNING 178 FT FROM DER, 288 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/19 FT MSL. TREES 1.4 NM FROM DER, 13 FT RIGHT OF CENTERLINE, UP TO 94 FT AGL/245 FT MSL. TREES 1.5 NM FROM DER, 520 FT RIGHT OF CENTERLINE, UP TO 80 FT AGL/235 FT MSL.
NOTE: RWY 19, TREES 3434 FT FROM DER, 1135 FT RIGHT OF CENTERLINE, UP TO 96 FT AGL/105 FT MSL. BUILDING 1.1 NM FROM DER, 1891 FT RIGHT OF CENTERLINE, 171 FT AGL/189 FT MSL.
NOTE: RWY 22, LIGHT POLE 216 FT FROM DER, 478 FT LEFT OF CENTERLINE, 15 FT AGL/23 FT MSL. TREES BEGINNING 550 FT FROM DER, 498 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/57 FT MSL. TREES, BUILDINGS, AND POLES BEGINNING 1324 FT FROM DER, 205 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/110 FT MSL. TREES 3098 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/91 FT MSL. TREES 2898 FT FROM DER, 605 FT LEFT OF CENTERLINE, UP TO 98 FT AGL/102 FT MSL. BUILDING AND POLE BEGINNING 4270 FT FROM DER, 651 FT RIGHT OF CENTERLINE, UP TO 110 FT AGL/148 FT MSL. BUILDING 1.7 NM FROM DER, 2473 FT RIGHT OF CENTERLINE, 200 FT AGL/420 FT MSL. BUILDING 2.3 NM FROM DER, 1008 FT RIGHT OF CENTERLINE, 324 FT AGL/443 FT MSL.
NOTE: RWY 33, SIGN 18 FT FROM DER, 191 FT LEFT OF CENTERLINE, 3 FT AGL/15 FT MSL. FENCE AND POLE BEGINNING 27 FT FROM DER, 332 FT RIGHT OF CENTERLINE, UP TO 18 FT AGL/28 FT MSL. VEHICLES ON ROAD AND TREES BEGINNING 365 FT FROM DER, 344 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/70 FT MSL. TREES BEGINNING 533 FT FROM DER, 101 FT LEFT OF CENTERLINE, UP TO 37 FT AGL/39 FT MSL. POLES AND TREES BEGINNING 641 FT FROM DER, 165 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/60 FT MSL. CRANES AND TREES BEGINNING 882 FT FROM DER, 289 FT LEFT OF CENTERLINE, UP TO 82 FT AGL/95 FT MSL. TREES BEGINNING 1603 FT FROM DER, 78 FT RIGHT OF CENTERLINE, UP TO 79 FT AGL/83 FT MSL. POLES AND BUILDINGS BEGINNING 1777 FT FROM DER, 868 FT LEFT OF CENTERLINE, UP TO 124 FT AGL/145 FT MSL. POLES BEGINNING 2917 FT FROM DER, 511 FT RIGHT OF CENTERLINE, UP TO 78 FT AGL/105 FT MSL. BUILDINGS AND ANTENNAS BEGINNING 4379 FT FROM DER, 246 FT LEFT OF CENTERLINE, UP TO 115 FT AGL/151 FT MSL.

CONTROLLING OBSTACLES:

RWY 1: 1049 FT MSL TOWER 385624.20N/0770452.42W (275 FT PER NM CLIMB GRADIENT). 595 FT MSL MONUMENT 385322.00N/0770207.00W (460 FT PER NM CLIMB GRADIENT, CEILING, VISIBILITY).
RWY 4: 265 FT MSL SPIRE 385238.83N/0770106.34W (CLIMB GRADIENT). 1048 FT MSL TOWER 385746.00N/0770135.00W (ROUTE DEVELOPMENT OBSTACLE).
RWY 15: 245 FT MSL TREE 384949.86N/0770048.40W (CLIMB GRADIENT, CLIMB-TO ALTITUDE, CEILING). 239 FT MSL TREE 384944.42N/0770051.15W (VISIBILITY).
RWY 19: 189 FT MSL BUILDING 384920.48N/0770229.29W.
RWY 22: 370 FT MSL BUILDING 384900.00N/0770359.00W (CLIMB GRADIENT, CLIMB-TO ALTITUDE). 443 FT MSL BUILDING 384826.98N/0770357.36W (CEILING, VISIBILITY).
RWY 33: 470 FT MSL BUILDING 385343.00N/0770415.00W (CLIMB GRADIENT). 1049 FT MSL TOWER 385624.20N/0770452.42W (ROUTE DEVELOPMENT OBSTACLE). .

LOST COMMUNICATIONS PROCEDURES:

QUALITY 6 CHECKED

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ADDITIONAL FLIGHT DATA:

CHART IN BOLD PRINT: NOTE: PROHIBITED AREA P-56 1.5 NM NORTH OF AIRPORT.
CHART: P-56.
CHART: TOP ALTITUDE: 5000.
CHART: POTOMAC AND ANACOSTIA RIVERS.
CHART ON GRAPHIC IN A BOX: DEP CON EAST FREQUENCY.
CHART ON GRAPHIC IN A BOX: DEP CON WEST FREQUENCY.

AIRPORTS SERVED:

RONALD REAGAN WASHINGTON NATIONAL WASHINGTON, DC

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TOWER, DEP CON EAST, DEP CON WEST

FIXES AND/OR NAVAIDS:

CHART: AGARD, BOOCK, BUFFR, COLIN, CLTCH, DAILY, DOCTR, FLUKY, GINYA, HAFNR, HORTO, JDUBB, JERES, MCRAY, OTTTO, PALEO, PAUKI, RAMAY, SCRAM, SOOKI, SWANN, WOOLY, AML VOR/DME, CSN VORTAC, EMI VORTAC, GVE VORTAC, LDN VORTAC, MOL VOR/DME.

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REMARKS:

1. RWY 1: 460 FT PER NM CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 455 FT PER NM); 275 FT PER NM CLIMB GRADIENT ROUND TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 272 FT PER NM).
2. RWY 4 CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 209 FT PER NM).
3. RWY 15 CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 213 FT PER NM).
4. RWY 19 CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 203 FT PER NM).
5. RWY 22 CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 303 FT PER NM).
6. RWY 33 CLIMB GRADIENT ROUNDED UP TO NEXT HIGHEST 5 FT INCREMENT FOR PUBLICATION (COMPUTED VALUE 281 FT PER NM).

REQUIRED EFFECTIVE DATE:

06/15/2015 ROUTINE

05/08/2015

ATA, ALPA, APA, AOPA, NBAA, ZDC, DCA ATCT, POTOMAC APP CON, ARPT MGR

CHANGES:

RENAMED DIXXE FIX TO BOOCK IN FIXES AND/OR NAVAIDS BLOCK.

REASONS:

ATC REQUEST.

QUALITY 6 CHECKED