

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation 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. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BOOCK	TWO	BOOCK2.BOOCK	ONE	15 OCT 15	31 MAR 2016

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1: CLIMB HEADING 004.49 TO INTERCEPT COURSE 332.00 TO ADAXE, THEN ON DEPICTED ROUTE TO BOOCK, THENCE...

TAKEOFF RWY 4: CLIMB HEADING 034.56 TO 515, THEN RIGHT TURN ON HEADING 070.00 OR AS ASSIGNED BY ATC, EXPECT VECTORS TO MCNAB, THEN ON TRACK 153.88 TO BOOCK, THENCE...

TAKEOFF RWY 15: CLIMB HEADING 151.64 TO INTERCEPT COURSE 207.04 TO LEAVY, THEN ON DEPICTED ROUTE TO BOOCK, THENCE...

TAKEOFF RWY 19: CLIMB HEADING 184.50 TO 515, THEN DIRECT FIMBI, THEN ON DEPICTED ROUTE TO BOOCK, THENCE...

TAKEOFF RWY 33: CLIMB HEADING 331.65 TO 515, THEN RIGHT TURN DIRECT ADAXE, THEN ON DEPICTED ROUTE TO BOOCK, THENCE...

...ON COLIN TRANSITION. MAINTAIN 5000. EXPECT CLEARANCE TO FILED ALTITUDE WITHIN 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
COLIN	BOOCK2.COLIN	BOOCK	COLIN	TRACK 181.74	18.71	10100	1500	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: RNAV 1.

NOTE: RADAR REQUIRED.

NOTE: TURBOJETS ONLY.

NOTE: DME/DME/IRU OR GPS REQUIRED.

NOTE: DEPARTING RWY 1 REQUIRES EXPEDITIOUS INTERCEPT OF OUTBOUND COURSE TO ENSURE AVOIDANCE OF P-56 BOUNDARY.

NOTE: RWY 1 DEPARTURES REMAIN CLEAR OF P-56, CLIMB HEADING 004.49, TURN LEFT AS SOON AS PRACTICAL TO INTERCEPT COURSE 332.00 TO ADAXE.

NOTE: PILOTS SHALL COMPLY WITH RONALD REAGAN WASHINGTON NATIONAL AIRPORT NOISE ABATEMENT AND PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES AS DEFINED IN THE CHART SUPPLEMENT SPECIAL NOTICES.

TAKEOFF MINIMUMS:

RWY 1, STANDARD WITH MINIMUM CLIMB OF 825 FT PER NM TO 600.

RWY 4, 15, 19, STANDARD WITH MINIMUM CLIMB OF 500 FT PER NM TO 515.

RWY 33, STANDARD WITH MINIMUM CLIMB OF 540 FT PER NM TO 640.

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.

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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 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: 595 FT MSL MONUMENT 385322.00N/0770207.00W (CLIMB-TO ALTITUDE).

RWY 33: 1049 FT MSL TOWER 385624.20N/0770452.42W (CLIMB-TO ALTITUDE).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KDCA 9W EPOCH YEAR: 1985. DME/DME ASSESSMENT: SAT (RNP 2.0)

CHART: TOP ALTITUDE: 5000.

CHART SPEED ICONS: MAXIMUM SPEED 220 KIAS AT ADAXE; MAXIMUM SPEED 230 KIAS AT FIMBI; MAXIMUM SPEED 250 KIAS AT DOGUE.

CHART: P56A, P-56B.

CHART: MEA/MOCA FROM MCNAB TO BOOCK, 6400/2000.

PILOT NAVIGATION AREA:

7 NM ARC CENTERED ON MCNAB (IF), CW
 FROM: POINT A (BEARING 109 TO MCNAB)
 TO: POINT B (BEARING 199 TO MCNAB)
 MINIMUM ALTITUDE – 4300

AIRPORTS SERVED:

RONALD REAGAN WASHINGTON NATIONAL

WASHINGTON, DC

COMMUNICATIONS:

ATIS, CLNC DEL, GND CON, TOWER, DEP CON 125.65/348.725

QUALITY
3
CHECKED

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
BOOCK	TWO	BOOCK2.BOOCK	ONE	15 OCT 15	31 MAR 2016

FIXES AND/OR NAVAIDS:

BEBLE, COVTO, ALEEX, DOGUE, GUCER



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REMARKS:

1. WAIVER AND APPROVAL LETTER ON FILE FOR LEG LENGTHS LESS THAN MINIMUM REQUIRED BY CRITERIA AND FOR CLIMB GRADIENTS EXCEEDING 500 FT PER NM.
2. RWY 1 MAGNETIC HEADING IN AIRNAV WAS UPDATED FROM 004.49 TO 004.50. WILL RETAIN FLIGHT INSPECTED AND AFS APPROVED VALUE OF 004.49 FOR THIS AMENDMENT.

CHANGES:

1. ADDED DEPARTURE ROUTE DESCRIPTION AND A DEFINED PILOT NAVIGATION AREA AT MCNAB FOR RWY 4.
2. ADDED TAKEOFF MINIMUMS AND TAKEOFF OBSTACLE NOTES FOR RWY 4.
3. ADDED NOTE: TURBOJETS ONLY.
4. AMENDED BOOCK TO COLIN MEA FROM 13800 TO 10100.
5. AMENDED THE FOLLOWING RNAV PRO CROSSING ALTITUDES: ADAXE FROM 1000 TO 900; BEBLE FROM 2000 TO 1300; COVTO FROM 3000 TO 1700; ALEEX FROM 4000 TO 2200; DOGUE FROM 5000 TO 3100; GUCER FROM 6000 TO 4500; BOOCK FROM 10000 TO 6400; LEAVY FROM 1000 TO 900; FIMBI FROM 2000 TO 1400; MCNAB FROM 7000 TO 4300.
6. AMENDED NOTE: PILOTS SHALL COMPLY WITH RONALD REAGAN WASHINGTON NATIONAL AIRPORT NOISE ABATEMENT AND PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES AS DEFINED IN AIRPORT/FACILITY DIRECTORY SPECIAL NOTICES TO READ PILOTS SHALL COMPLY WITH RONALD REAGAN WASHINGTON NATIONAL AIRPORT NOISE ABATEMENT AND PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES AS DEFINED IN THE CHART SUPPLEMENT SPECIAL NOTICES.

REASONS:

1. ATC REQUEST.
2. IN ACCORDANCE WITH CURRENT DOCUMENTATION POLICY.
3. ATC REQUEST.
- 4, 5. RE-EVALUATED AT A 200 FT PER NM CLIMB FROM NEAREST RUNWAY END TO PRECLUDE PUBLISHING RECEPTION CLIMB GRADIENTS AND POTENTIALLY ELIMINATE USERS.
6. AIRPORT/FACILITY DIRECTORY PUBLICATIONS ARE BEING RENAMED CHART SUPPLEMENT IN ACCORDANCE WITH IACC 8 SPECIFICATIONS.



DEPARTURE (DATA RECORD)

DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
BOOCK		TWO		BOOCK2.BOOCK			ONE		15 OCT 15	31 MAR 2016
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW01 (AER)	385029.65N/0770212.29W	N	-	-	-	-				
	385216.70N/0770223.06W	-	-	VI	355.49	1.79			CG 825 FT/NM TO 600	
ADAXE	385402.61N/0770405.22W	Y	FB	CF	323.00	2.21		AT/BELOW 220K	RECOMMENDED NAVAID: DCA VOR/DME	
BEBLE	385455.81N/0770626.92W	Y	FB	TF	295.68	2.05				
COVTO	385649.58N/0770802.23W	Y	FB	TF	326.81	2.26				
ALEEX	385902.29N/0770930.51W	Y	FB	TF	332.56	2.49				
DOGUE	390230.96N/0770556.51W	Y	FB	TF	038.64	4.45		AT/BELOW 250K		
GUCER	390146.95N/0765653.83W	Y	FB	TF	095.89	7.09				
BOOCK	382434.35N/0764250.50W	Y	FB	TF	163.44	38.77				
RW04 (AER)*	385029.84N/0770228.15W*	N	-	-	-	-			*DISPL THLD (200 FT)	
	515 MSL	-	-	VA	025.56	-			CG 500 FT/NM TO 515	
		-	-	VM	061.00	-				
MCNAB	383306.13N/0765027.69W	Y	FB	DF	-	-				
BOOCK	382434.35N/0764250.50W	Y	FB	TF	144.88	10.41				
RW15 (AER)	385140.18N/0770235.87W	N	-	-	-	-				
	385007.25N/0770105.16W	-	-	VI	142.64	1.95			CG 500 FT/NM TO 515	
LEAVY	384819.33N/0770150.09W	Y	FB	CF	198.04	1.89			RECOMMENDED NAVAID: DCA VOR/DME	
FIMBI	384508.90N/0770105.77W	Y	FB	TF	169.67	3.22		AT/BELOW 230K		
MCNAB	383306.13N/0765027.69W	Y	FB	TF	145.25	14.64				
BOOCK	382434.35N/0764250.50W	Y	FB	TF	144.88	10.41				
RW19 (AER)	385140.29N/0770219.41W	N	-	-	-	-				
	515 MSL	-	-	VA	175.50	-			CG 500 FT/NM TO 515	
FIMBI	384508.90N/0770105.77W	Y	FB	DF	-	-		AT/BELOW 230K		
MCNAB	383306.13N/0765027.69W	Y	FB	TF	145.25	14.64				
BOOCK	382434.35N/0764250.50W	Y	FB	TF	144.88	10.41				

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DP Name		Number		DP Computer Code			Superseded Number		Dated	Effective Date
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FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS	
RW33 (AER)	385059.29N/0770155.95W	N	-	-	-	-				
515 MSL		-	-	VA	322.65	-			CG 540 FT/NM TO 640	
ADAXE	385402.61N/0770405.22W	Y	FB	DF	-	-		AT/BELOW 220K	RIGHT TURN	
BEBLE	385455.81N/0770626.92W	Y	FB	TF	295.68	2.05				
COVTO	385649.58N/0770802.23W	Y	FB	TF	326.81	2.26				
ALEEX	385902.29N/0770930.51W	Y	FB	TF	332.56	2.49				
DOGUE	390230.96N/0770556.51W	Y	FB	TF	038.64	4.45		AT/BELOW 250K		
GUCER	390146.95N/0765653.83W	Y	FB	TF	095.89	7.09				
BOOCK	382434.35N/0764250.50W	Y	FB	TF	163.44	38.77				
BOOCK	382434.35N/0764250.50W	Y	-	IF	-	-			BOOCK2.COLIN	
COLIN	380559.23N/0763950.85W	Y	FB	TF	172.74	18.71				