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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 1: CLIMB HEADING 004.49 TO INTERCEPT COURSE 332.00 TO ADAXE, THENCE...

TAKEOFF RWY 33: CLIMB HEADING 331.65 TO 515 MSL, THEN RIGHT TURN DIRECT ADAXE, THENCE...

...THEN ON DEPICTED ROUTE TO LAZIR, THEN ON HEADING 328.46, EXPECT RADAR VECTORS, MAINTAIN 5000, 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: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.
NOTE: RNAV 1.
NOTE: TURBOJET AIRCRAFT ONLY.
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: DO NOT EXCEED 220 KIAS UNTIL CROSSING ADAXE.
NOTE: DEPARTING RWY 1 REQUIRES EXPEDITIOUS INTERCEPT OF OUTBOUND COURSE TO ENSURE AVOIDANCE P-56 BOUNDARY.
NOTE: ATC ASSIGNED ONLY.

TAKEOFF MINIMUMS:
RWY 1, STANDARD WITH MINIMUM CLIMB OF 825 FT PER NM TO 515 FT MSL.
RWY 33, STANDARD WITH MINIMUM CLIMB OF 540 FT PER NM TO 515 FT MSL.

TAKEOFF OBSTACLES NOTES:

QUALITY CHECKED 1

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LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

NOTE: RWY 1, BLDG 119 FT FROM DER, 330 FT RIGHT OF CENTERLINE, 16 FT AGL/23 FT MSL. FENCE AND TREES BEGINNING 261 FT FROM DER, 211 FT LEFT OF CENTERLINE, UP TO 62 FT AGL/72 FT MSL. TREES BEGINNING 1365 FT FROM DER, 331 FT RIGHT OF CENTERLINE, 47 FT AGL/51 FT MSL. MONUMENT 1.7 NM FROM DER, 1784 FT LEFT OF CENTERLINE, 556 FT AGL/596 FT MSL.

NOTE: RWY 33, TREES BEGINNING 140 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 70 FT AGL/80 FT MSL. BLAST FENCE BEGINNING 174 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 9 FT AGL/24 FT MSL. POLES BEGINNING 1221 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 73 FT AGL/106 FT MSL. BUILDINGS BEGINNING 1557 FT FROM DER, 623 FT LEFT OF CENTERLINE, UP TO 102 FT AGL/142 FT MSL. ELEVATOR 1829 FT FROM DER, 345 FT RIGHT OF CENTERLINE, 71 FT AGL/88 FT MSL. FLAGPOLE 1.7 NM FROM DER, 2118 FT LEFT OF CENTERLINE, 108 FT AGL/308 FT MSL.

CONTROLLING OBSTACLES:

RWY 1: 1049 FT MSL TOWER 385624.20N-0770452.42W
RWY 33: 1049 FT MSL TOWER 385624.20N-0770452.42W

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART P-56.
CHART POTOMAC AND ANACOSTIA RIVERS.
CHART IN BOLD PRINT:
NOTE: PROHIBITED AREA P-56 1.5 NM NORTH OF AIRPORT.
CHART IN A BOX: DEPARTURE FREQUENCY *(DOUBLE LINE BREAK)* IF YOUR ROUTE CONTAINS... *(DOUBLE LINE BREAK)* DAILY, PALEO, OR SWANN *(DOUBLE LINE BREAK)* USE 125.65 / 348.725
CHART IN A BOX: DEPARTURE FREQUENCY *(DOUBLE LINE BREAK)* IF YOUR ROUTE CONTAINS... *(DOUBLE LINE BREAK)* J149, BUFFR, CSN VORTAC, FLUKY, GINYA, GVE VORTAC, HAFNR, LDN VORTAC, MOL VOR/DME, PAUKI, JERES, OR RAMAY *(DOUBLE LINE BREAK)* USE 118.95 / 257.2

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

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:

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

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LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

BUFFR, DAILY, FLUKY, GINYA, HAFNR, JERES, PALEO, PAUKI, RAMAY, SWANN, LDN VORTAC, CSN VORTAC, AML VOR/DME, GVE VORTAC, MOL VOR/DME.

REMARKS:

QUALITY CHECKED 1

GRAPHIC DEPARTURE PROCEDURE (DP)

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LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

RWY 1 VI/CF DEVELOPED TO ENSURE CONSISTENT FLIGHT TRACKS DUE TO VICINITY OF P-56. VI/CF DEVELOPED PER REQUEST OF RNP OFFICE AND USERS GROUP (AMERICAN AND UNITED AIRLINES).
RWY 1 CEILING AND VISIBILITY ALTERNATIVE NOT PROVIDED PER INSTRUCTIONS FROM RNP OFFICE.
RWY 1 COURSE TO ADAXE DEVELOPED AT .61NM FROM DER (825 FT CG), DTA/FIX ERROR OCCURS PRIOR TO DER (4742 FT FROM AER) PER RNP OFFICE.
RWY 33 CLIMB GRADIENT ESTABLISHED TO PROVIDE AIRCRAFT ALTITUDE FOR LNAV ENGAGEMENT AND VA/DF COMPLIANCE PER RNP OFFICE.
RWY 1 SIMULATOR EVALUATIONS INCORPORATE LNAV ENGAGEMENT BELOW 500 FT.
FLT CHECK DME/DME MINIMUM VERIFICATION ALTITUDES:
ADAXE 855 BEBLE 1265 COVTO 1717 LAZIR 2331

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

FLIGHT INSPECTED BY:

JORGE A MALCUN FICO 07/10/2012

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

KELLY D. DEAN AJV-352 09/10/2012

APPROVED BY:

SUE CRUMB, MANAGER AJV-352

COORDINATED WITH:

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

CHANGES:

1. ADDED ATC ASSIGNED ONLY PROCEDURAL NOTE.
2. CHANGED 8260-15C CODING ON LAZIR TF LEGS FROM FB TO FO.

REASONS:

1. ATC REQUEST.
2. DIRECTED BY CODING GROUP.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAZIR	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW01 (AER)	385029.65N/0770212.29W	N	-	-	-	-			VI/CF PERMITTED
	385216.70N/0770223.06W	-	-	VI	355.49	1.74		AT/BELOW 220K	CG 825 FT PER NM TO 515
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			
LAZIR	385909.60N/0771035.68W	Y	FO	TF	319.46	3.07			
	-	-	-	VM	319.46	-			
RW33 (AER)	385101.22N/0770157.83W	N	-	-	-	-			
515 MSL		-	-	VA	322.65	-		AT/BELOW 220K	CG 540 FT PER NM TO 515
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			
LAZIR	385909.60N/0771035.68W	Y	FO	TF	319.46	3.07			
	-	-	-	VM	319.46	-			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAZIR (RNAV)	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        DCA   K6011100VDLW N38513403W077021117    N38513403W077021117W0090000101     NARWASHINGTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ADAXE K60    W     N38540261W077040522                      W0108     NAR           ADAXE
        SUSAEAENRT   BEBLE K60    W     N38545581W077062692                      W0108     NAR           BEBLE
        SUSAEAENRT   COVTO K60    W     N38564958W077080223                      W0108     NAR           COVTO
        SUSAEAENRT   LAZIR K60    W     N38590960W077103568                      W0107     NAR           LAZIR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDCAK6ADCA     0     071YHN38510690W077021572W009000015         1800018000C    MNAR    RONALD REAGAN WASHINGTON NATIO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDCAK6DLAZIR44RW01  010         0        VI                       0045                    18000220              -
        SUSAP KDCAK6DLAZIR44RW01  020ADAXEK6EA0E    010CF DCA K6      3380002933200022D                    220              -
        SUSAP KDCAK6DLAZIR44RW01  030BEBLEK6EA0E    010TF                     30470021
        SUSAP KDCAK6DLAZIR44RW01  040COVTOK6EA0E    010TF                     33580023
        SUSAP KDCAK6DLAZIR44RW01  050LAZIRK6EA0EY   010TF                     32850031
        SUSAP KDCAK6DLAZIR44RW01  060         0 E      VM                     3285
        SUSAP KDCAK6DLAZIR44RW33  010         0        VA                     3317        + 00515     18000220              -
        SUSAP KDCAK6DLAZIR44RW33  020ADAXEK6EA0E    010DF                                                 220              -
        SUSAP KDCAK6DLAZIR44RW33  030BEBLEK6EA0E    010TF                     30470021
        SUSAP KDCAK6DLAZIR44RW33  040COVTOK6EA0E    010TF                     33580023
        SUSAP KDCAK6DLAZIR44RW33  050LAZIRK6EA0EY   010TF                     32850031
        SUSAP KDCAK6DLAZIR44RW33  060         0 E      VM                     3285

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDCAK6GRW01    0071690045 N38502965W077021229+0000    -0028600011000051150IIDCA2
        SUSAP KDCAK6GRW33    0052043317 N38510122W077015783+0100    -0029000010000055150R
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
LAZIR (RNAV)	FOUR	LAZIR4.LAZIR	THREE	20 SEP 2012	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW01		010		VI		FB		004.5()			AB 220
	RW01	ADAXE	020		CF		FB	1.0	332.0()	002.2		AB 220
	RW01	BEBLE	030		TF		FB	1.0	304.7()	002.1		
	RW01	COVTO	040		TF		FB	1.0	335.8()	002.3		
	RW01	LAZIR	050		TF		FO	1.0	328.5()	003.1		
	RW01		060		VM		FB		328.5()			
	RW33		010		VA		FB		331.7()		AA 00515	AB 220
	RW33	ADAXE	020		DF		FB	1.0				AB 220
	RW33	BEBLE	030		TF		FB	1.0	304.7()	002.1		
	RW33	COVTO	040		TF		FB	1.0	335.8()	002.3		
	RW33	LAZIR	050		TF		FO	1.0	328.5()	003.1		
	RW33		060		VM		FB		328.5()			

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
DCA	N385134.03	W0770211.17	N3851.567	W07702.186
ADAXE	N385402.61	W0770405.22	N3854.044	W07704.087
BEBLE	N385455.81	W0770626.92	N3854.930	W07706.449
COVTO	N385649.58	W0770802.23	N3856.826	W07708.037
LAZIR	N385909.60	W0771035.68	N3859.160	W07710.595
RW01	N385029.65	W0770212.29	N3850.494	W07702.205
RW33	N385101.22	W0770157.83	N3851.020	W07701.964

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW01	00011	51
RW33	00010	55